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THE VASCULAR PLANTS COLLECTED BY MARK CATESBY IN SOUTH CAROLINA: COMBINING THE SLOANE AND OXFORD HERBARIA

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ABSTRACT

We provide a list of all vascular plant specimens collected in the Carolinas by Mark Catesby that are housed in the historic herbaria at Oxford University and the Sloane Herbarium. The identifications along with notes on the significance of selected specimens are presented. This paper continues our work with Catesby's collections that we began with his specimens in the Sloane Herbarium at the Natural History Museum, London. The availability of high-quality digital images published on the Oxford Herbarium's website has facilitated our examination of these specimens. The collections themselves shed light on the nature of the flora of the Carolinas before European settlement, including the native ranges of several problematic taxa. The presence of a number of taxa known to be introduced to the Americas indicates that these introductions must have occurred prior to the 1720s.

KEY WORDS: Catesby, Sloane Herbarium, herbarium, historic botany, ecology, South Carolina, digital imaging

Mark Catesby, born in England in 1682 or 1683, devoted most of his adult life to studying the natural history of southeastern North America and the Caribbean. He lived in South Carolina from 1722 to 1725, followed by several months in the Bahamas before he returned home to England. He spent those years traveling in the wilderness, collecting plant specimens, taking copious notes and making sketches. This material became the basis of the publication that made his scholarly reputation, the *Natural History of Carolina, Florida, and the Bahama Islands*, published between 1729 and 1747.

Catesby sent his dried plant specimens to his sponsors in England, including Sir Hans Sloane, William Sherard, and Charles Dubois. Sloane's specimens became part of the original collections of the Natural History Museum in London and are today housed in the Sloane Herbarium, in volumes H.S. 212 and H.S. 232. Sherard's specimens are now in the Sherard and Dubois Herbaria at the University of Oxford.

In November 2011, McMillan and Hackney Blackwell traveled to London to digitally photograph Catesby's Sloane materials. We have published these online as part of our *Botanica Caroliniana* project and published a list of determinations of these specimens along with notes on their ecological, taxonomic, and historical significance (McMillan et al 2013).

Adding the Oxford collection to the Sloane materials was the logical next step. The Sloane and Oxford materials comprise the full set of Catesby's primary source vascular plant materials from the Carolinas, or nearly so. (James Reveal has mentioned the existence of a box of Catesby specimens on top of a shelf in the Sloane Herbarium; it is entirely possible that other dried plants exist in unknown locations.) Stephen Harris, curator of the Oxford herbaria, has digitally photographed the entire Catesby collection housed at Oxford and published them online.[1] McMillan and Hackney Blackwell have examined all of these images and made determinations of almost all of them.

As with our Sloane project, the availability of digital images made it quick and easy for us to examine the specimens at our leisure in South Carolina. The Oxford specimens are well-preserved and not fragmentary. A number of taxa appear in the Oxford materials that were not in the Sloane collections. Combining the lists from the Sloane and Oxford creates a full set of Catesby's work and facilitates even more insights into the ecology of South Carolina before extensive European settlement.

METHODOLOGY

Identification

To identify the specimens, McMillan and Hackney Blackwell first did a search on the Oxford BRAHMS database for all Carolina specimens collected by Mark Catesby ("The Collections of Mark Catesby in Oxford," 2013). As we did with the Sloane collections, we set up two laptops side by side, on which we accessed multiple pieces of information: the digital images of Catesby's collections; the PDF of Weakley's *Flora of the Carolinas* (2012); an online version of Catesby's *Natural History*; other websites such as USDA's Plants Database; and a database program (*Bento* from Filemaker) in which we collected and organized our data.

The excellent condition of the specimens facilitated the process of identification. Unlike the Sloane specimens, which are bound in books, the Oxford collections are preserved on individual flat sheets of paper. This allowed for considerably flatter images with less distortion than was unavoidable with the Sloane materials. In addition, the Sloane herbaria pages typically contain multiple specimens of different species. The Oxford materials, on the other hand, for the most part contain one specimen per page. This made identifying individual specimens by folio much more straightforward; each specimen is associated with either a unique accession number or a barcode number.

Like the Sloane materials, the Oxford specimens contain handwritten texts in addition to plant specimens. We did not take the time to transcribe these notes, many of which are written by hand in Latin. The notes have been photographed individually and are published on the Oxford website along with the plant images.

Results

In the Oxford collections, we made determinations to the species level for 744 specimens known or suspected to have been collected in Carolina. All determinations were made by Patrick D. McMillan in collaboration with Hackney Blackwell.

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1 We are extremely grateful to Stephen Harris for his help with our work on the Sloane specimens and for his hospitality during Hackney Blackwell's visit to Oxford in May 2012, as well as for his valuable work in photographing and posting online the full Catesby collections from Oxford.

In this table, we have combined the Oxford specimens with the determinations we already made and published in *Phytoneuron* for the specimens from the Sloane Herbarium. We did this in the interest of publishing in one place a more complete set of Catesby's collections from the Carolinas.

All Oxford specimens are identified by either a barcode number (a string of digits beginning with 000) or a Sherard Herbarium identifying number (beginning with "Sher-"). These were the most obvious unique identifiers available on the online database. The Sloane specimens are identified by volume, either H.S. 212 or H.S. 232, and folio page. Images of the Sloane specimens are available on the Botanica Caroliniana website (Botanica Caroliniana, 2013).

Basal Angiosperms

Aristolochiaceae	*Asarum canadense* L.	00087430M
Aristolochiaceae	*Asarum canadense* L.	H.S. 212 f.58b
Aristolochiaceae	*Endodeca serpentaria* (L.) Raf.	Sher-2041
Aristolochiaceae	*Endodeca serpentaria* (L.) Raf.	H.S. 232 f.122
Calycanthaceae	*Calycanthus floridus* L.	H.S. 212 f.16
Lauraceae	*Litsea aestivalis* (L.) Fernald	H.S. 232 f.35
Lauraceae	*Persea borbonia* (L.) Sprengel	Sher-0821
Lauraceae	*Persea borbonia* (L.) Sprengel	00095706R
Lauraceae	*Persea borbonia* (L.) Sprengel	H.S. 232 f.50
Lauraceae	*Persea palustris* (Raf.) Sargent	Sher-0821-2
Lauraceae	*Persea palustris* (Rafinesque) Sargent	H.S. 212 f.1
Magnoliaceae	*Liriodendron tulipifera* L.	00087309R
Magnoliaceae	*Liriodendron tulipifera* L.	H.S. 212 f.80
Magnoliaceae	*Magnolia acuminata* (L.) L.	00087184S
Magnoliaceae	*Magnolia grandiflora* L.	Sher-1116
Magnoliaceae	*Magnolia grandiflora* L.	00087190P
Nymphaeaceae	*Nymphaea odorata* Aiton	H.S. 212 f.23
Nymphaeaceae	*Nymphaea odorata* Aiton	Sher-1089
Nymphaeaceae	*Nymphaea odorata* Aiton	00087301J
Nymphaeaceae	*Nymphaea odorata* Aiton	00087305N
Nymphaeaceae	*Nymphaea odorata* Aiton	00087306O
Nymphaeaceae	*Nymphaea odorata* Aiton	Sher-1089-2
Nymphaeaceae	*Nymphaea odorata* Aiton	H.S. 232 f.84
Saururaceae	*Saururus cernuus* L.	H.S. 232 f.82

Monocots

Amaryllidaceae	*Allium cuthbertii* Small	Sher-0704
Amaryllidaceae	*Allium cuthbertii* Small	H.S. 212 f.36
Amaryllidaceae	*Narcissus* sp.	H.S. 232 f.61
Anacardiaceae	*Rhus copallinum* L.	00087446T
Arecaceae	*Sabal palmetto* (Walter) Loddiges ex J.A. & J.H. Schultes	Sher-1501
Arecaceae	*Sabal palmetto* (Walter) Loddiges ex J.A. & J.H. Schultes,	Sher-1501-2
Cannaceae	*Canna flaccida* Salisbury	00095775X
Commelinaceae	*Commelina erecta* L.	H.S. 212 f.57
Commelinaceae	*Commelina erecta* L.	H.S. 212 f.6
Commelinaceae	*Commelina virginica* L.	00087192R

Commelinaceae	*Cuthbertia rosea* (Ventenat) Small	Sher-0694
Cyperaceae	*Carex* sp.	H.S. 232 f.61
Cyperaceae	*Carex glaucescens* Elliott	00087555U
Cyperaceae	*Carex glaucescens* Elliott	00087571S
Cyperaceae	*Carex glaucescens* Elliott	H.S. 212 f.44
Cyperaceae	*Carex glaucescens* Elliott	H.S. 232 f.139
Cyperaceae	*Carex glaucescens* Elliott	H.S. 232 f.139
Cyperaceae	*Carex longii* Mackenzie	00087500K
Cyperaceae	*Cyperus echinatus* (L.) Wood	00087567X
Cyperaceae	*Cyperus echinatus* (L.) Wood	Sher-0090
Cyperaceae	*Cyperus echinatus* (L.) Wood	H.S. 212 f.86
Cyperaceae	*Cyperus echinatus* (L.) Wood	H.S. 232 f.30
Cyperaceae	*Cyperus echinatus* (L.) Wood	Sher-0083
Cyperaceae	*Cyperus erythrorhizos* Muhlenberg	00087581T
Cyperaceae	*Cyperus erythrorhizos* Muhlenberg	Sher-0080
Cyperaceae	*Cyperus polystachyos* Rottboll	Sher-0084
Cyperaceae	*Cyperus* sp.	Sher-0086
Cyperaceae	*Cyperus virens* Michx.	H.S. 232 f.137
Cyperaceae	*Cyrilla racemiflora* L.	00095682U
Cyperaceae	*Dulichium arundinaceum* (L.) Britton	00087578Z
Cyperaceae	*Dulichium arundinaceum* (L.) Britton	Sher-0069-1
Cyperaceae	*Eleocharis* sp.	H.S. 232 f.61
Cyperaceae	*Fuirena breviseta* (Coville) Coville	H.S. 212 f.44
Cyperaceae	*Fuirena breviseta* (Coville) Coville	00087574V
Cyperaceae	*Fuirena squarrosa* Michx.	H.S. 232 f.139
Cyperaceae	*Fuirena squarrosa* Michx.	00087573U
Cyperaceae	*Fuirena squarrosa* Michx.	Sher-1694
Cyperaceae	*Rhynchospora caduca* Elliott	Sher-0099
Cyperaceae	*Rhynchospora caduca* Elliott	00087488Z
Cyperaceae	*Rhynchospora colorata* (L.) H. Pfeiffer	H.S. 212 f.45
Cyperaceae	*Rhynchospora colorata* (L.) H. Pfeiffer	00087583V
Cyperaceae	*Rhynchospora colorata* (L.) H. Pfeiffer	Sher-0074
Cyperaceae	*Rhynchospora distans* (Michx.) Vahl.	Sher-0071
Cyperaceae	*Rhynchospora fascicularis* (Michx.) Vahl	H.S. 232 f.139
Cyperaceae	*Rhynchospora glomerata* (L.) Vahl	00087492U
Cyperaceae	*Rhynchospora glomerata* (L.) Vahl	00087559Y
Cyperaceae	*Rhynchospora glomerata* (L.) Vahl	H.S. 212 f.43
Cyperaceae	*Rhynchospora inundata* (Oakes) Fernald	00087582U
Cyperaceae	*Rhynchospora microcephala* (Britton) Britton ex Small	Sher-0072
Cyperaceae	*Ryhnchospora microcephala* (Britton) Britton ex Small	00087575W
Cyperaceae	*Ryhnchospora microcephala* (Britton) Britton ex Small	00087577Y
Cyperaceae	*Scirpus cyperinus* (L.) Kunth	H.S. 212 f.87
Dioscoreaceae	*Dioscorea villosa* L.	Sher-1374-2
Dioscoreaceae	*Dioscorea villosa* L.	00087220J
Dioscoreaceae	*Dioscorea villosa* L.	00087224N
Dioscoreaceae	*Dioscorea villosa* L.	H.S. 212 f.17
Eriocaulaceae	*Eriocaulon decangulare* L.	Sher-0196
Eriocaulaceae	*Eriocaulon decangulare* L.	00087204L

Eriocaulaceae	*Eriocaulon decangulare* L.	00087579-
Eriocaulaceae	*Eriocaulon decangulare* L.	H.S. 212 f.41
Eriocaulaceae	*Eriocaulon decangulare* L.	H.S. 212 f.42
Eriocaulaceae	*Eriocaulon decangulare* L.	H.S. 232 f.133
Haemodoraceae	*Lachnanthes caroliniana* (Lam.) Dandy	Sher-sn-i
Haemodoraceae	*Lachnanthes caroliniana* (Lam.) Dandy	H.S. 232 f.110
Heloniadaceae	*Chamaelirium luteum* (L.) A. Gray	Sher-0763
Juncaceae	*Juncus biflorus* Elliott	00087462R
Juncaceae	*Juncus biflorus* Elliott	Sher-0078
Juncaceae	*Juncus scirpoides* Lam.	00087466V
Juncaceae	*Juncus scirpoides* Lam.	00087569Z
Juncaceae	*Juncus scirpoides* Lam.	H.S. 212 f.43
Liliaceae	*Lilium catesbaei* Walter	Sher-0708
Liliaceae	*Lilium catesbaei* Walter	H.S. 232 f.68
Liliaceae	*Medeola virginiana* L.	Sher-0759
Liliaceae	*Medeola virginiana* L.	H.S. 232 f.48
Melanthiaceae	*Amianthium muscitoxicum* (Walter) A. Gray	00087495X
Melanthiaceae	*Amianthium muscitoxicum* (Walter) A. Gray	Sher-0760
Melanthiaceae	*Amianthium muscitoxicum* (Walter) A. Gray	H.S. 212 f.29
Melanthiaceae	*Amianthium muscitoxicum* (Walter) A. Gray	H.S. 212 f.63
Melanthiaceae	*Melanthium hybridum* = *Veratrum* species 1 sensu Weakley	00087451P
Melanthiaceae	*Melanthium hybridum* = Veratrum species 1 sensu Weakley	00087482T
Melanthiaceae	*Melanthium hybridum* = *Veratrum* species 1 sensu Weakley	H.S. 212 f.36
Melanthiaceae	*Melanthium hybridum* = *Veratrum* species 1 sensu Weakley	H.S. 232 f.127
Melanthiaceae	*Melanthium virginicum* = *Veratrum virginicum* (L.) Aiton	00087502M
Melanthiaceae	*Melanthium virginicum* = *Veratrum virginicum* (L.) Aiton	00087510L
Nartheciaceae	*Aletris aurea* Walter	00087494W
Nartheciaceae	*Aletris aurea* Walter	H.S. 232 f.105
Orchidaceae	*Calopogon tuberosus* (L.) BSP	Sher-2022
Orchidaceae	*Calopogon tuberosus* (L.) BSP	Sher-2022-2
Orchidaceae	*Cleistesiopsis divaricata* (L.) Pansarin & F. Barros	00087515Q
Orchidaceae	*Habenaria quinqueseta* (Michx.) A. Eaton	Sher-2009
Orchidaceae	*Habenaria repens* Nutt.	H.S. 212 f.90
Orchidaceae	*Habenaria repens* Nutt.	Sher-2008
Orchidaceae	*Habenaria repens* Nutt.	00087503N
Orchidaceae	*Hexalectris spicata* (Walter) Barnhart	Sher-2024
Orchidaceae	*Malaxis unifolia* Michx.	Sher-2016
Orchidaceae	*Platanthera ciliaris* (L.) Lindl.	H.S. 212 f.56
Orchidaceae	*Platanthera ciliaris* (L.) Lindl.	00087499.
Orchidaceae	*Platanthera ciliaris* (L.) Lindl.	00087507R
Orchidaceae	*Platanthera integra* (Nutt.) A. Gray ex Beck	H.S. 212 f.55
Orchidaceae	*Platanthera integra* (Nuttall) A. Gray ex Beck	00087491T
Orchidaceae	*Platanthera* sp.	00087487Y
Orchidaceae	*Pogonia ophioglossoides* (L.) Ker-Gawler	00087511M
Orchidaceae	*Spiranthes odorata* (Nutt.) Lindl.	Sher-2013

Poaceae	*Andropogon tenuispatheus* (Nash) Nash	00087576X
Poaceae	*Andropogon tenuispatheus* (Nash) Nash	H.S. 212 f.87
Poaceae	*Arundinaria tecta* (Walter) Muhlenberg	00087480R
Poaceae	*Arundinaria tecta* (Walter) Muhlenberg	Sher-0184
Poaceae	*Arundinaria tecta* (Walter) Muhlenberg	Sher-0184-2
Poaceae	*Cenchrus* sp.	H.S. 212 f.84
Poaceae	*Cenchrus* sp.	00087496Y
Poaceae	*Cenchrus incertus* M.A. Curtis	Sher-0132
Poaceae	*Chasmanthium latifolium* (Michx.) Yates	H.S. 232 f.103
Poaceae	*Chasmanthium sessilifolium* (Poiret) Yates	Sher-0177
Poaceae	*Chloris elata* Desv. = *Chloris polydactyla*	00087545T
Poaceae	*Chloris radiata* (L.) Sw.	00087549X
Poaceae	*Coelorachis rugosa* (Nutt.) Nash	H.S. 212 f.85
Poaceae	*Coleataenia species* 1 in prep. ssp. *rigidula* per Weakley	00087584W
Poaceae	*Ctenium aromaticum* (Walter) Wood	H.S. 212 f.44
Poaceae	*Ctenium aromaticum* (Walter) Wood	Sher-0139
Poaceae	*Ctenium aromaticum* (Walter) Wood	00087537U
Poaceae	*Ctenium aromaticum* (Walter) Wood	00087541P
Poaceae	*Danthonia sericea* Nuttall	Sher-0187
Poaceae	*Digitaria sanguinalis* (L.) Scopoli	Sher-0125
Poaceae	*Echinochloa* sp.	H.S. 212 f.44
Poaceae	*Echinochloa crusgalli* (L.) Palisot de Beauvois	00087523P
Poaceae	*Eleusine indica* (L.) Gaertn.	H.S. 212 f.85
Poaceae	*Eleusine indica* (L.) Gaertner	00087562S
Poaceae	*Elymus virginicus* L.	00087521N
Poaceae	*Eragrostis cilianensis* (Allioni) Vignolo ex Janchen	00087570R
Poaceae	*Eragrostis elliottii* S. Watson	00087566W
Poaceae	*Gymnopogon ambiguus* (Michx.) BSP	Sher-0186
Poaceae	*Hackelochloa granularis* (L.) Kuntze	00087527T
Poaceae	Indet.	H.S. 232 f.61
Poaceae	Indet.	H.S. 212 f.45
Poaceae	*Leptochloa panicea* (Retzius) Ohwi	Sher-0182-3
Poaceae	*Leptochloa panicea* (Retzius) Ohwi ssp. *brachiata* (Steudel) N. Snow	00087529V
Poaceae	*Leptochloa panicea* (Retzius) Ohwi ssp. *brachiata* (Steudel) N. Snow	00087533Q
Poaceae	*Leptochloa panicea* (Retzius) Ohwi ssp. *brachiata* (Steudel) N. Snow	Sher-0182-2
Poaceae	*Leptochloa* sp.	H.S. 232 f.103
Poaceae	*Paspalum floridanum* Michx.	H.S. 232 f.117
Poaceae	*Paspalum floridanum* Michx.	00087531O
Poaceae	*Paspalum floridanum* Michx.	00087539W
Poaceae	*Paspalum floridanum* Michx.	H.S. 212 f.83
Poaceae	*Phalaris caroliniana* Walter	H.S. 232 f.61
Poaceae	*Phleum arenarium* L.	H.S. 232 f.61
Poaceae	*Saccharum brevibarbe* (Michx.) Persoon var. *contortum* (Elliott) R. Webster	00087547V
Poaceae	*Saccharum brevibarbe* (Michx.) Persoon var. *contortum* (Elliott) R. Webster	Sher-0183

Poaceae	*Saccharum giganteum* (Walter) Pers.	H.S. 212 f.86
Poaceae	*Saccharum giganteum* (Walter) Pers.	Sher-0108
Poaceae	*Saccharum giganteum* (Walter) Pers.	00087543R
Poaceae	*Sacciolepis striata* (L.) Nash	00087519U
Poaceae	*Sacciolepis striata* (L.) Nash	00087580S
Poaceae	*Setaria corrugata* (Elliott) J.A. Schultes	Sher-0118
Poaceae	*Setaria magna* Griseb.	H.S. 212 f.82
Poaceae	*Setaria parviflora* (Poir.) Kerguélen	Sher-0116
Poaceae	*Setaria parviflora* (Poir.) Kerguélen	H.S. 212 f.44
Poaceae	*Setaria parviflora* (Poir.) Kerguélen	H.S. 212 f.83
Poaceae	*Setaria parviflora* (Poir.) Kerguélen	H.S. 232 f.30
Poaceae	*Setaria parviflora* (Poir.) Kerguélen	Sher-0116-2
Poaceae	*Setaria parviflora* (Poir.) Kerguélen	00087564U
Poaceae	*Setaria parviflora* (Poir.) Kerguélen	00087568Y
Poaceae	*Setaria pumila* (Poir.) Roemer & Schultes	Sher-0116
Poaceae	*Sporobolus indicus* (L.) R. Br.	H.S. 212 f.86
Poaceae	*Sporobolus indicus* (L.) R. Br.	H.S. 212 f.85
Poaceae	*Sporobolus indicus* (L.) R. Br.	00087572T
Poaceae	*Sporobolus indicus* (L.) R. Br.	Sher-0145
Poaceae	*Tripsacum dactyloides* (L.) L.	00095710M
Poaceae	*Uniola paniculata* L.	00087525R
Poaceae	*Uniola paniculata* L.	Sher-0176
Poaceae	*Uniola paniculata* L.	Sher-0176-2
Poaceae	*Uniola paniculata* L.	H.S. 232 f.56
Poaceae	*Zizania aquatica* L.	H.S. 212 f.88
Poaceae	*Zizania aquatica* L. var. *aquatica*	Sher-0103
Pontederiaceae	*Pontederia cordata* L. var. *cordata*	H.S. 232 f.67
Pontederiaceae	*Pontederia cordata* L. var. *lancifolia* (Muhlenberg ex Elliott) Torrey	H.S. 212 f.19
Ruscaceae	*Maianthemum racemosum* (L.) Link	H.S. 212 f.60
Ruscaceae	*Maianthemum racemosum* (L.) Link	00087486X
Ruscaceae	*Maianthemum racemosum* (L.) Link	00087490S
Ruscaceae	*Nolina georgiana* Michx.	Sher-0762
Ruscaceae	*Nolina georgiana* Michx.	Sher-0762-2
Ruscaceae	*Nolina georgiana* Michx.	H.S. 212 f.32
Ruscaceae	*Polygonatum biflorum* (Walter) Elliott	00087514P
Ruscaceae	*Polygonatum biflorum* (Walter) Elliott	H.S. 212 f.60
Smilacaceae	*Smilax auriculata* Walter	H.S. 232 f.31
Smilacaceae	*Smilax bona-nox* L.	00095796-
Smilacaceae	*Smilax bona-nox* L.	Sher-2217
Smilacaceae	*Smilax bona-nox* L.	Sher-2222
Smilacaceae	*Smilax bona-nox* L.	Sher-2227-2
Smilacaceae	*Smilax herbacea* L.	Sher-2219
Smilacaceae	*Smilax hispida* Raf.	00095792W
Smilacaceae	*Smilax laurifolia* L.	Sher-2229
Smilacaceae	*Smilax pumila* Walter	00087200H
Smilacaceae	*Smilax pumila* Walter	Sher-2223
Smilacaceae	*Smilax pumila* Walter	Sher-2223-2
Smilacaceae	*Smilax pumila* Walter	H.S. 212 f.95
Smilacaceae	*Smilax smallii* Morong	00095800M
Smilacaceae	*Smilax smallii* Morong	Sher-2221

Smilacaceae	*Smilax* sp.	00095788
Smilacaceae	*Smilax* sp.	Sher-2225
Tofieldiaceae	*Triantha racemosa* (Walter) Small	H.S. 232 f.117
Trilliaceae	*Trillium catesbaei* Elliott	Sher-sn-ATG
Trilliaceae	*Trillium catesbaei* Elliott	00087470Q
Trilliaceae	*Trillium catesbaei* Elliott	H.S. 212 f.59
Trilliaceae	*Trillium cuneatum* Raf.	00087474U
Trilliaceae	*Trillium discolor* Wray ex Hooker	00087478Y
Trilliaceae	*Trillium discolor* Wray ex Hooker	Sher-sn-ATH
Trilliaceae	*Trillium maculatum* Raf.	H.S. 212 f.59
Xyridaceae	*Xyris ambigua* Bey. ex Kunth	H.S. 212 f.42
Xyridaceae	*Xyris ambigua* Bey. ex Kunth	00087551Q
Xyridaceae	*Xyris ambigua* Bey. ex Kunth	00087563T

Eudicots

Acanthaceae	*Dyschoriste oblongifolia* (Michx.) Kuntze	H.S. 232 f.129
Altingiaceae	*Liquidambar styraciflua* L.	H.S. 212 f.79
Altingiaceae	*Liquidambar styraciflua* L.	H.S. 232 f.34
Altingiaceae	*Liquidambar styraciflua* L.	00087448V
Amaranthaceae	*Dysphania ambrosioides* (L.) Mosyakin & Clemants	00087426R
Anacardiaceae	*Toxicodendron pubescens* P. Miller	00087442P
Anacardiaceae	*Toxicodendron radicans* (L.) Kuntze	H.S. 212 f.19
Anacardiaceae	*Toxicodendron vernix* (L.) Kuntze	H.S. 212 f.25
Anacardiaceae	*Toxicodendron vernix* (L.) Kuntze	00087212K
Anacardiaceae	*Toxicodendron vernix* (L.) Kuntze	00087216O
Anacardiaceae	*Toxicodendron vernix* (L.) Kuntze	00095711N
Apiaceae	*Angelica venenosa* (Greenway) Fernald	00087335Q
Apiaceae	*Angelica venenosa* (Greenway) Fernald	00087347T
Apiaceae	*Angelica venenosa* (Greenway) Fernald	Sher-0622
Apiaceae	*Angelica venenosa* (Greenway) Fernald	H.S. 212 f.39
Apiaceae	*Cicuta maculata* L.	00087323N
Apiaceae	*Cicuta maculata* L.	00087330L
Apiaceae	*Cicuta maculata* L.	00087343P
Apiaceae	*Cicuta maculata* L.	00087351O
Apiaceae	*Cicuta maculata* L.	Sher-0626-5
Apiaceae	*Cicuta maculata* L.	H.S. 212 f.27
Apiaceae	*Eryngium integrifolium* Walter	00087334P
Apiaceae	*Eryngium integrifolium* Walter	H.S. 212 f.41
Apiaceae	*Eryngium integrifolium* Walter	Sher-0614
Apiaceae	*Eryngium yuccifolium* Michx.	00087338T
Apiaceae	*Osmorhiza longistylis* (Torr.) A.P. de Candolle	H.S. 212 f.32
Apiaceae	*Osmorhiza longistylis* (Torr.) A.P. de Candolle	H.S. 212 f.34
Apiaceae	*Osmorhiza longistylis* (Torr.) A.P. de Candolle	00087339U
Apiaceae	*Osmorhiza longistylis* (Torr.) A.P. de Candolle	Sher-0635
Apiaceae	*Ptilimnium capillaceum* (Michx.) Raf.	00087331M
Apiaceae	*Ptilimnium capillaceum* (Michx.) Raf.	Sher-0621
Apiaceae	*Ptilimnium capillaceum* (Michx.) Raf.	H.S. 232 f.116
Apiaceae	*Thaspium barbinode* (Michx.) Nutt.	H.S. 212 f.58a
Apiaceae	*Thaspium trifoliatum* (L.) A. Gray var. *trifoliatum*	H.S. 212 f.37

Apocynaceae	*Amsonia tabernaemontana* Walter	Sher-0551
Apocynaceae	*Amsonia tabernaemontana* Walter	00087427S
Apocynaceae	*Amsonia tabernaemontana* Walter var. *tabernaemontana*	H.S. 212 f.37
Apocynaceae	*Apocynum cannabinum* L.	Sher-0550-2
Apocynaceae	*Apocynum cannabinum* L.	00087431N
Apocynaceae	*Apocynum cannabinum* L.	H.S. 212 f.57
Apocynaceae	*Asclepias amplexicaulis* Sm.	Sher-0582
Apocynaceae	*Asclepias amplexicaulis* Sm.	H.S. 212 f.30
Apocynaceae	*Asclepias humistrata* Walter	Sher-0586
Apocynaceae	*Asclepias humistrata* Walter	H.S. 232 f.86
Apocynaceae	*Asclepias humistrata* Walter	H.S. 212 f.30
Apocynaceae	*Asclepias michauxii* Decaisne	00087214M
Apocynaceae	*Asclepias obovata* Elliott	H.S. 232 f.114
Apocynaceae	*Asclepias perennis* Walter	H.S. 232 f.122
Apocynaceae	*Asclepias rubra* L.	Sher-0587-2
Apocynaceae	*Asclepias rubra* L.	H.S. 232 f.83
Apocynaceae	*Asclepias rubra* L. (left) *Asclepias lanceolata* Walter (right)	Sher-0565
Apocynaceae	*Asclepias tuberosa* L.	Sher-0574-2
Apocynaceae	*Asclepias tuberosa* L.	H.S. 212 f.31
Apocynaceae	*Asclepias tuberosa* L.	H.S. 212 f.30
Apocynaceae	*Asclepias variegata* L.	Sher-0567
Apocynaceae	*Asclepias verticillata* L.	Sher-0566
Apocynaceae	*Asclepias verticillata* L.	Sher-0546
Apocynaceae	*Asclepias verticillata* L.	H.S. 212 f.30
Apocynaceae	*Asclepias viridiflora* Raf.	Sher-0583
Apocynaceae	*Asclepias viridiflora* Raf.	H.S. 212 f.18
Apocynaceae	*Cynanchum laeve* (Michx.) Persoon	Sher-0548
Apocynaceae	*Matelea carolinensis* (Jacq.) Woodson	H.S. 212 f.17
Aquifoliaceae	*Ilex ambigua* (Michx.) Torr.	H.S. 212 f.15
Aquifoliaceae	*Ilex ambigua* (Michx.) Torrey = *Ilex beadlei* W.W. Ashe	00087255R
Aquifoliaceae	*Ilex ambigua* (Michx.) Torrey = *Ilex beadlei* W.W. Ashe	00087255R
Aquifoliaceae	*Ilex cassine* L.	Sher-0250
Aquifoliaceae	*Ilex cassine* L.	00087208P
Aquifoliaceae	*Ilex cassine* L.	00087437T
Aquifoliaceae	*Ilex cassine* L.	00087441O
Aquifoliaceae	*Ilex cassine* L.	00095687Z
Aquifoliaceae	*Ilex cassine* L.	00095703O
Aquifoliaceae	*Ilex cassine* L.	Sher-0256
Aquifoliaceae	*Ilex cassine* L.	H.S. 212 f.65
Aquifoliaceae	*Ilex cassine* x *opaca*	H.S. 212 f.65
Asteraceae	*Ampelaster carolinianus* (Walter) Nesom	H.S. 212 f.83
Asteraceae	*Ampelaster carolinianus* (Walter) Nesom	00087344Q
Asteraceae	*Ampelaster carolinianus* (Walter) Nesom	H.S. 232 f.41
Asteraceae	*Arnoglossum atriplicifolium* (L.) H. Rob.	H.S. 212 f.6
Asteraceae	*Arnoglossum atriplicifolium* (L.) H. Rob.	00087258U
Asteraceae	*Berlandiera pumila* (Michx) Nutt.	00087358V
Asteraceae	*Berlandiera pumila* (Michx) Nutt.	H.S. 212 f.34

Asteraceae	*Bidens bipinnata* L.	00087254Q
Asteraceae	*Bidens bipinnata* L.	00087274S
Asteraceae	*Bidens frondosa* L.	H.S. 212 f.8
Asteraceae	*Bidens* sp.	H.S. 212 f.7
Asteraceae	*Bigelowia nudata* (Michx.) DC.	H.S. 212 f.74
Asteraceae	*Borrichia frutescens* (L.) A.P. de Candolle	00087318R
Asteraceae	*Brickellia eupatorioides* (L.) Shinners	00087263Q
Asteraceae	*Brickellia eupatorioides* (L.) Shinners	00087321L
Asteraceae	*Carphephorus carnosus* (Small) C.W. James	H.S. 232 f.30
Asteraceae	*Carphephorus* sp.	00087370P
Asteraceae	*Chaptalia tomentosa* Vent.	H.S. 212 f.35
Asteraceae	*Chaptalia tomentosa* Vent.	Sher-1982
Asteraceae	*Chrysogonum virginianum* L.	H.S. 212 f.17
Asteraceae	*Chrysoma pauciflosculosa* (Michx.) Greene	Sher-1686
Asteraceae	*Chrysopsis gossypina* (Michx.) Elliott	Sher-1762
Asteraceae	*Chrysopsis gossypina* (Michx.) Elliott	H.S. 232 f.42
Asteraceae	*Chrysopsis gossypina* (Michx.) Elliott	00087290Q
Asteraceae	*Chrysopsis mariana* (L.) Elliott	H.S. 212 f.96
Asteraceae	*Chrysopsis mariana* (L.) Elliott	00087269W
Asteraceae	*Chrysopsis mariana* (L.) Elliott	Sher-1887-2
Asteraceae	*Chrysopsis mariana* (L.) Elliott	Sher-1889
Asteraceae	*Chrysopsis mariana* (L.) Elliott	H.S. 232 f.42
Asteraceae	*Chrysopsis mariana* (L.) Elliott	H.S. 232 f.64
Asteraceae	*Cirsium repandum* Michx.	Sher-1638
Asteraceae	*Cirsium* sp.	Sher-1639
Asteraceae	*Cirsium* sp.	00087322M
Asteraceae	*Cirsium virginianum* (L.) Michx.	Sher-1637
Asteraceae	*Conyza canadensis* (L.) Cronquist var. *pusilla* (Nuttall) Cronquist	Sher-1745
Asteraceae	*Coreopsis delphinifolia* Lam.	Sher-1960
Asteraceae	*Coreopsis delphiniifolia* Lam.	H.S. 232 f.29
Asteraceae	*Coreopsis lanceolata* L.	00087278W
Asteraceae	*Coreopsis lanceolata* L.	00087376V
Asteraceae	*Coreopsis lanceolata* L.	Hort-048-056c
Asteraceae	*Coreopsis lanceolata* L.	H.S. 232 f.123
Asteraceae	*Coreopsis lanceolata* L.	H.S. 212 f.20
Asteraceae	*Coreopsis major* Walter var. *major*	H.S. 212 f.33
Asteraceae	*Coreopsis major* Walter var. *major*	H.S. 232 f.48
Asteraceae	*Coreopsis major* Walter var. *rigida* (Nuttall) F.E.Boynton	00087251N
Asteraceae	*Coreopsis major* Walter var. *rigida* (Nuttall) F.E.Boynton	00095700L
Asteraceae	*Coreopsis major* Walter var. *rigida* (Nuttall) F.E.Boynton	Sher-1968
Asteraceae	*Coreopsis major* Walter var. *rigida* (Nuttall) F.E.Boynton	Sher-1969-2
Asteraceae	*Coreopsis pubescens* Elliott	Sher-1965
Asteraceae	*Elephantopus carolinianus* Räuschel	Sher-1632
Asteraceae	*Elephantopus tomentosus* L.	00087371Q
Asteraceae	*Elephantopus tomentosus* L.	Sher-1991
Asteraceae	*Erigeron quercifolius* Lam.	00087374T

Asteraceae	*Erigeron quercifolius* Lam.	H.S. 212 f.40
Asteraceae	*Erigeron quercifolius* Lam.	Sher-1765
Asteraceae	*Erigeron quercifolius* Lam.	00087325P
Asteraceae	*Erigeron quercifolius* Lam.	Sher-1764
Asteraceae	*Erigeron strigosus* Muhlenberg ex Willdenow	H.S. 232 f.127
Asteraceae	*Eupatorium* sp.	H.S. 212 f.88
Asteraceae	*Eupatorium album* L.	00087380Q
Asteraceae	*Eupatorium capillifolium* (Lam.) Small	H.S. 212 f.84
Asteraceae	*Eupatorium capillifolium* (Lam.) Small	00087286V
Asteraceae	*Eupatorium capillifolium* (Lam.) Small	00087337S
Asteraceae	*Eupatorium capillifolium* (Lam.) Small	H.S. 232 f.49
Asteraceae	*Eupatorium compositifolium* Walter	H.S. 212 f.89
Asteraceae	*Eupatorium leucolepis* (DC.) Torr. & A. Gray	00087270O
Asteraceae	*Eupatorium leucolepis* (DC.) Torr. & A. Gray	H.S. 212 f.10
Asteraceae	*Eupatorium leucolepis* (DC.) Torr. & A. Gray	H.S. 212 f.10
Asteraceae	*Eupatorium perfoliatum* L.	H.S. 212 f.74
Asteraceae	*Eupatorium purpureum* L. var. *purpureum*	H.S. 232 f.28
	Eutrochium purpureum (L.) E.E. Lamont var. *purpureum*	
Asteraceae	*Eupatorium rotundifolium* L.	00087265S
Asteraceae	*Eupatorium semiserratum* A.P. de Candolle	00087250M
Asteraceae	*Eupatorium serotinum* Michx.	00087248T
Asteraceae	*Eupatorium serotinum* Michx.	Sher-1674
Asteraceae	*Eupatorium serotinum* Michx.	H.S. 232 f.73
Asteraceae	*Eupatorium serotinum* Michx.	H.S. 212 f.89
Asteraceae	*Eupatorium torreyanum* Short & Peter	00087379Y
Asteraceae	*Euthamia caroliniana* (L.) Greene ex Porter & Britton	00087315O
Asteraceae	*Euthamia caroliniana* (L.) Greene ex Porter & Britton	H.S. 212 f.9
Asteraceae	*Euthamia caroliniana* (L.) Greene ex Porter & Britton	00087353Q
Asteraceae	*Euthamia caroliniana* (L.) Greene ex Porter & Britton	H.S. 232 f.40
Asteraceae	*Eutrochium dubium* (Willdenow ex Poiret) E.E. Lamont	H.S. 212 f.49
Asteraceae	*Eutrochium purpureum* (L.) E.E. Lamont	00087259V
Asteraceae	*Gaillardia aestivalis* (Walter) H. Rock	00087313M
Asteraceae	*Gaillardia aestivalis* (Walter) H. Rock	00087324O
Asteraceae	*Gaillardia aestivalis* (Walter) H. Rock	Sher-1899
Asteraceae	*Gaillardia aestivalis* (Walter) H. Rock	Sher-1899-2
Asteraceae	*Gaillardia aestivalis* (Walter) H. Rock var. *aestivalis*	H.S. 212 f.40
Asteraceae	*Gaillardia aestivalis* (Walter) H. Rock var. *aestivalis*	H.S. 232 f.123
Asteraceae	*Gaillardia pulchella* Fougeroux var. *pulchella*	Sher-1957
Asteraceae	*Gaillardia pulchella* Fougeroux var. *pulchella*	00087294U
Asteraceae	*Gamochaeta antillana* (Urban) Anderberg	H.S. 212 f.35
Asteraceae	*Gamochaeta calviceps* (Fernald) Cabrera	Sher-1706a
Asteraceae	*Gamochaeta calviceps* (Fernald) Cabrera	00087293T
Asteraceae	*Helenium flexuosum* Raf.	Sher-1897

Asteraceae	*Helenium flexuosum* Raf.	00087246R
Asteraceae	*Helenium flexuosum* Raf.	00087377W
Asteraceae	*Helenium flexuosum* Raf.	H.S. 212 f.33
Asteraceae	*Helenium flexuosum* Raf.	H.S. 232 f.29
Asteraceae	*Helianthus angustifolius* L.	00087368W
Asteraceae	*Helianthus angustifolius* L.	H.S. 212 f.92
Asteraceae	*Helianthus angustifolius* L.	00087326Q
Asteraceae	*Helianthus atrorubens* L.	Sher-1650
Asteraceae	*Helianthus atrorubens* L.	Sher-1947-3
Asteraceae	*Helianthus debilis* Nutt.	Sher-1944-2
Asteraceae	*Helianthus hirsutus* Raf.	H.S. 232 f.114
Asteraceae	*Helianthus hirsutus* Raf.	Sher-1934-3
Asteraceae	*Helianthus hirsutus* Raf.	00087352P
Asteraceae	*Heliopsis helianthoides* (L.) Sweet	00087245Q
Asteraceae	*Heliopsis helianthoides* (L.) Sweet var. *helianthoides*	H.S. 232 f.113
Asteraceae	*Heliopsis helianthoides* (L.) Sweet var. *gracilis* (Nuttall) Gandhi & Thomas	Sher-1968-2
Asteraceae	*Indet.*	H.S. 212 f.41
Asteraceae	*Lactuca graminifolia* Michx.	Sher-1605
Asteraceae	*Lactuca* sp.	Sher-1609-2
Asteraceae	*Lactuca* sp.	H.S. 232 f.61
Asteraceae	*Liatris elegans* (Walter) Michx.	00087317Q
Asteraceae	*Liatris elegans* (Walter) Michx.	Sher-1623-2
Asteraceae	*Liatris elegans* (Walter) Michx.	H.S. 232 f.40
Asteraceae	*Liatris elegans* (Walter) Michx.	Sher-1623
Asteraceae	*Liatris elegans* (Walter) Michx.	H.S. 212 f.92
Asteraceae	*Liatris elegans* (Walter) Michx.	H.S. 212 f.94
Asteraceae	*Liatris secunda* Elliott	00087273R
Asteraceae	*Liatris secunda* Elliott	00087316P
Asteraceae	*Liatris secunda* Elliott	Sher-1622
Asteraceae	*Liatris secunda* Elliott	H.S. 232 f.111
Asteraceae	*Liatris spicata* (L.) Willd. var. *resinosa* (Nutt.) Gaiser	H.S. 232 f.111
Asteraceae	*Liatris spicata* (L.) Willd. var. *resinosa* (Nutt.) Gaiser	H.S. 212 f.94
Asteraceae	*Liatris spicata* (L.) Willd. var. *resinosa* (Nutt.) Gaiser	H.S. 212 f.94
Asteraceae	*Liatris spicata* (L.) Willd. var. *resinosa* (Nutt.) Gaiser	00087333O
Asteraceae	*Liatris spicata* (L.) Willd. var. *resinosa* (Nutt.) Gaiser	Sher-1621
Asteraceae	*Liatris squarrosa* (L.) Michx. var. *squarrosa*	H.S. 212 f.54
Asteraceae	*Liatris squarrosa* (L.) Michx.	00087361P
Asteraceae	*Liatris squarrosa* (L.) Michx.	Hort-071-082b
Asteraceae	*Liatris squarrulosa* Michx.	Sher-1624
Asteraceae	*Liatris squarrulosa* Michx.	H.S. 232 f.42
Asteraceae	*Liatris squarrulosa* Michx.	H.S. 212 f.96
Asteraceae	*Marshallia graminifolia* (Walter) Small	00087247S
Asteraceae	*Marshallia graminifolia* (Walter) Small	00087367V
Asteraceae	*Marshallia graminifolia* (Walter) Small	H.S. 212 f.53

Asteraceae	*Marshallia obovata* (Walter) Beadle & F.E. Boynt. var. *scaposa* Channell	H.S. 212 f.60
Asteraceae	*Marshallia obovata* (Walter) Beadle & F.E. Boynt. var. *scaposa* Channell	00087365T
Asteraceae	*Melanthera nivea* (L.) Small	Hort-046-054b
Asteraceae	*Melanthera nivea* (L.) Small	00087378X
Asteraceae	*Pityopsis graminifolia* (Michx.) Nuttall var. *latifolia* Fernald	00087357U
Asteraceae	*Pityopsis graminifolia* (Michx.) Nuttall var. *latifolia* Fernald	H.S. 212 f.72
Asteraceae	*Pluchea camphorata* (L.) D.C.	00087362Q
Asteraceae	*Pluchea camphorata* (L.) D.C.	Hort-089-105
Asteraceae	*Pluchea foetida* (L.) D.C.	H.S. 212 f.51
Asteraceae	*Pluchea foetida* (L.) D.C.	00087262P
Asteraceae	*Pluchea foetida* (L.) D.C.	Sher-1687
Asteraceae	*Prenanthes autumnalis* Walter	Sher-1609
Asteraceae	*Prenanthes autumnalis* Walter	H.S. 212 f.83
Asteraceae	*Prenanthes autumnalis* Walter	00087282R
Asteraceae	*Prenanthes serpentaria* Pursh	Sher-1607
Asteraceae	*Prenanthes serpentaria* Pursh	H.S. 232 f.134
Asteraceae	*Prenanthes* sp.	Sher-1608
Asteraceae	*Pseudognaphalium obtusifolium* (L.) Hilliard & Burtt	H.S. 212 f.75
Asteraceae	*Pseudognaphalium obtusifolium* (L.) Hilliard & Burtt	00087289Y
Asteraceae	*Pterocaulon pycnostachyum* (Michx.) Elliott	Sher-1698
Asteraceae	*Rudbeckia hirta* L.	H.S. 232 f.49
Asteraceae	*Sericocarpus asteroides* (L.) BSP	H.S. 212 f.35
Asteraceae	*Sericocarpus asteroides* (L.) BSP	00087345R
Asteraceae	*Sericocarpus tortifolius* (Michx.) Nees	00087341N
Asteraceae	*Sericocarpus tortifolius* (Michx.) Nees	H.S. 212 f.94
Asteraceae	*Silphium asteriscus* L.	Hort-037-42b
Asteraceae	*Silphium asteriscus* L.	00087375U
Asteraceae	*Silphium asteriscus* L.	H.S. 212 f.18
Asteraceae	*Smallanthus uvedalius* (L.) Mackenzie ex Small	H.S. 232 f.102
Asteraceae	*Solidago fistulosa* Mill.	H.S. 212 f.10
Asteraceae	*Solidago fistulosa* Mill.	00087349V
Asteraceae	*Solidago odora* Aiton	H.S. 212 f.9
Asteraceae	*Solidago petiolaris* Aiton	00087336R
Asteraceae	*Solidago petiolaris* Aiton	Sher-1865
Asteraceae	*Solidago petiolaris* Aiton var. *petiolaris*	H.S. 232 f.63
Asteraceae	*Solidago rugosa* P. Miller	Sher-1855
Asteraceae	*Solidago rugosa* P. Miller	00087366U
Asteraceae	*Solidago sempervirens* L.	H.S. 212 f.75
Asteraceae	*Solidago sempervirens* L.	00087329T
Asteraceae	*Solidago stricta* Aiton	Sher-1864
Asteraceae	*Stokesia laevis* (Hill) Greene	Sher-1641
Asteraceae	*Symphyotrichum concolor* (L.) Nesom	H.S. 212 f.96
Asteraceae	*Symphyotrichum concolor* (L.) Nesom	Sher-1819
Asteraceae	*Symphyotrichum concolor* (L.) Nesom var. *concolor*	H.S. 232 f.64

Asteraceae	*Symphyotrichum dumosum* (L.) Nesom	H.S. 212 f.71
Asteraceae	*Symphyotrichum dumosum* (L.) Nesom	00087348U
Asteraceae	*Symphyotrichum dumosum* (L.) Nesom	Sher-1775-2
Asteraceae	*Symphyotrichum dumosum* (L.) Nesom	H.S. 232 f.123
Asteraceae	*Symphyotrichum dumosum* (L.) Nesom	00087320K
Asteraceae	*Symphyotrichum elliottii* (Torrey & A. Gray) Nesom	Sher-1822
Asteraceae	*Symphyotrichum subulatum* (Michx.) Nesom	Sher-1809
Asteraceae	*Trilisa odoratissima*	Sher-1619
Asteraceae	*Trilisa odoratissima*	Sher-1619-2
Asteraceae	*Trilisa odoratissima*	Sher-1619?
Asteraceae	*Trilisa paniculata* (J.F. Gmelin) Cassini	00087266T
Asteraceae	*Trilisa paniculata* (J.F. Gmelin) Cassini	Sher-1626
Asteraceae	*Trilisa paniculata* (J.F. Gmelin) Cassini	H.S. 232 f.40
Asteraceae	*Trilisa paniculata* (J.F. Gmelin) Cassini	H.S. 212 f.96
Asteraceae	*Vernonia acaulis* (Walter) Gleason	H.S. 232 f.130
Asteraceae	*Vernonia angustifolia* Michx.	Sher-1800
Asteraceae	*Vernonia angustifolia* Michx.	00087363R
Asteraceae	*Vernonia angustifolia* Michx.	H.S. 212 f.62
Asteraceae	*Vernonia gigantea* (Walter) Trelease	H.S. 232 f.66
Asteraceae	*Vernonia glauca* (L.) Willd.	00087372R
Asteraceae	*Vernonia noveboracensis* (L.) Michx.	Hort-262-341
Balsaminaceae	*Impatiens capensis* Meerburgh	H.S. 232 f.115
Balsaminaceae	*Impatiens capensis* Meerburgh	H.S. 232 f.74
Berberidaceae	*Podophyllum peltatum* L.	Sher-1078-3
Berberidaceae	*Podophyllum peltatum* L.	H.S. 212 f.63
Betulaceae	*Carpinus caroliniana* Walter	00095720N
Betulaceae	*Carpinus caroliniana* Walter	H.S. 212 f.13
Betulaceae	*Ostrya virginiana* (Miller) Koch	H.S. 232 f.61
Bignoniaceae	*Catalpa bignonioides* Walter	00087472S
Bignoniaceae	*Catalpa bignonioides* Walter	00095685X
Bignoniaceae	*Catalpa bignonioides* Walter	00095691U
Bignoniaceae	*Catalpa bignonioides* Walter	00095693W
Bignoniaceae	*Catalpa bignonioides* Walter	Sher-1249
Bignoniaceae	*Catalpa bignonioides* Walter	Sher-1249-3
Bignoniaceae	*Catalpa bignonioides* Walter	H.S. 232 f.51
Bignoniaceae	*Catalpa bignonioides* Walter	H.S. 212 f.61
Boraginaceae	*Lithospermum canescens* (Michx.) Lehmann	Sher-0268
Boraginaceae	*Lithospermum canescens* (Michx.) Lehmann	00087544S
Boraginaceae	*Lithospermum caroliniense* (Walter ex J.F. Gmel.) MacMill.	H.S. 212 f.54
Boraginaceae	*Onosmodium virginianum* (L.) A. DC.	H.S. 212 f.40
Boraginaceae	*Onosmodium virginianum* (L.) A. DC.	Sher-0273
Brassicaceae	*Lepidium virginicum* L.	Sher-1310
Brassicaceae	*Nasturtium officinale* R. Brown	H.S. 232 f.61
Campanulaceae	*Lobelia elongata* Small	H.S. 232 f.48
Campanulaceae	*Lobelia elongata* Small	H.S. 212 f.7
Campanulaceae	*Lobelia glandulosa* Walter	Sher-0376-2
Campanulaceae	*Lobelia glandulosa* Walter	00095712O
Campanulaceae	*Lobelia puberula* Michx.	H.S. 212 f.7
Campanulaceae	*Triodanis perfoliata* (L.) Nieuwl.	H.S. 212 f.31

Campanulaceae	*Triodanis perfoliata* (L.) Nieuwl.	00087409S
Caryophyllaceae	*Indet.*	H.S. 232 f.61
Caryophyllaceae	*Silene virginica* L.	00087296W
Caryophyllaceae	*Silene virginica* L.	00087303L
Caryophyllaceae	*Silene virginica* L.	H.S. 212 f.18
Celastraceae	*Euonymus americanus* L.	00087267U
Celastraceae	*Euonymus americanus* L.	Sher-0511-4
Cleomaceae	*Tarenaya hassleriana* (Chodat) H.H. Iltis *Cleome hassleriana* Chodat	00087297X
Clethraceae	*Clethra tomentosa* Lam.	00087210I
Clethraceae	*Clethra tomentosa* Lam.	H.S. 212 f.50
Clethraceae	*Clethra tomentosa* Lam.	H.S. 232 f.35
Clethraceae	*Clethra tomentosa*, *Clethra alnifolia* (nonflowering) on top	00087218Q
Convolvulaceae	*Calystegia catesbeiana* Pursh	Sher-0343-2
Convolvulaceae	*Calystegia catesbeiana* Pursh	H.S. 212 f.34
Convolvulaceae	*Ipomoea* sp.	H.S. 232 f.61
Convolvulaceae	*Ipomoea coccinea* L.	H.S. 232 f.61
Convolvulaceae	*Ipomoea sagittata* Poiret	Sher-0320
Convolvulaceae	*Ipomoea sagittata* Poiret	00087540O
Convolvulaceae	*Jacquemontia tamnifolia* (L.) Grisebach	00087560Q
Convolvulaceae	*Jacquemontia tamnifolia* (L.) Grisebach	Sher-0359
Convolvulaceae	*Stylisma humistrata* (Walter) Chapman	Sher-0316
Cornaceae	*Cornus asperifolia* Michx.	H.S. 232 f.60
Cornaceae	*Cornus florida* L	H.S. 232 f.89
Cornaceae	*Cornus florida* L.	00095680S
Cornaceae	*Cornus stricta* Lam.	00087332N
Cornaceae	*Cornus stricta* Lam.	Sher-0236
Cornaceae	*Cornus florida* L.	H.S. 212 f.5
Cucurbitaceae	*Melothria pendula* L.	Sher-0054
Cucurbitaceae	*Melothria pendula* L.	H.S. 232 f.135
Cucurbitaceae	*Momordica charantia* L.	Sher-2195
Cyrillaceae	*Cyrilla racemiflora* L.	H.S. 212 f.67
Cyrillaceae	*Cyrilla racemiflora* L.	H.S. 232 f.55
Cyrillaceae	*Cyrilla racemiflora* L.	Sher-0516
Ebenaceae	*Diospyros virginiana* L.	00087232M
Ebenaceae	*Diospyros virginiana* L.	H.S. 212 f.2
Ebenaceae	*Diospyros virginiana* L.	H.S. 232 f.47
Ericaceae	*Ceratiola ericoides* Michx.	Sher-0020
Ericaceae	*Ceratiola ericoides* Michx.	00087471R
Ericaceae	*Ceratiola ericoides* Michx.	H.S. 232 f.31
Ericaceae	*Chamaedaphne calyculata* (L.) Moench	00087230K
Ericaceae	*Chamaedaphne calyculata* (L.) Moench	Sher-0798
Ericaceae	*Kalmia latifolia* L.	00087401K
Ericaceae	*Kalmia latifolia* L.	H.S. 212 f.64
Ericaceae	*Kalmia latifolia* L.	H.S. 232 f.54
Ericaceae	*Leucothoe axillaris* (Lam.) D. Don	00087240L
Ericaceae	*Leucothoe axillaris* (Lam.) D. Don	Sher-0881
Ericaceae	*Leucothoe fontanesiana* (Steud.) Sleumer	H.S. 212 f.15
Ericaceae	*Lyonia ligustrina* (L.) A.P. de Candolle var. *foliosiflora* (Michx.) Fernald	Sher-0874

Ericaceae	*Lyonia lucida* (Lam.) K. Koch	00095677Y
Ericaceae	*Lyonia lucida* (Lam.) K. Koch	H.S. 212 f.65
Ericaceae	*Lyonia lucida* (Lam.) K. Koch	00087186U
Ericaceae	*Monotropa uniflora* L.	00087405O
Ericaceae	*Oxydendrum arboreum* (L.) DC.	H.S. 212 f.66
Ericaceae	*Oxydendrum arboreum* (L.) DC.	00087238S
Ericaceae	*Oxydendrum arboreum* (L.) DC.	00087422N
Ericaceae	*Oxydendrum arboreum* (L.) DC.	00095689.
Ericaceae	*Oxydendrum arboreum* (L.) DC.	H.S. 232 f.57
Ericaceae	*Rhododendron canescens* (Michx.) Sweet	Sher-0297
Ericaceae	*Rhododendron canescens* (Michx.) Sweet	00095724R
Ericaceae	*Vaccinum stamineum* L. var. *caesium* (Greene) D.B. Ward	Sher-0797
Ericaceae	*Vaccinum stamineum* L. var. *caesium* (Greene) D.B. Ward	H.S. 212 f.60
Euphorbiaceae	*Chamaesyce* sp.	H.S. 212 f.47
Euphorbiaceae	*Chamaesyce* sp.	H.S. 212 f.48
Euphorbiaceae	*Chamaesyce* sp.	H.S. 212 f.51
Euphorbiaceae	*Cnidoscolus stimulosus* (Michx.) Engelmann & A. Gray	00087342O
Euphorbiaceae	*Cnidoscolus stimulosus* (Michx.) Engelmann & A. Gray	H.S. 212 f.32
Euphorbiaceae	*Croton glandulosus* L. var. *septentrionalis* Müller of Aargau	Sher-2069
Euphorbiaceae	*Euphorbia commutata* Engelmann ex A. Gray	Sher-0968
Euphorbiaceae	*Euphorbia commutata* Engelmann ex A. Gray	00087512N
Euphorbiaceae	*Euphorbia pubentissima* Michx.	Sher-0959-2
Euphorbiaceae	*Euphorbia* subgenus *Chamaesyce* sp.	Sher-sn-m
Euphorbiaceae	*Stillingia sylvatica* Garden ex L. ssp. *sylvatica*	H.S. 232 f.65
Euphorbiaceae	*Stillingia sylvatica* Garden ex L. ssp. *sylvatica*	H.S. 212 f.53
Euphorbiaceae	*Tragia urticifolia* Michx.	Sher-2065
Euphorbiaceae	*Tragia urticifolia* Michx.	00087455T
Euphorbiaceae	*Tragia urticifolia* Michx.	H.S. 212 f.55
Fabaceae	*Cicer arietinum* L.	Sher-1504
Fabaceae	*Amorpha glabra* Desf. ex Poir.	H.S. 212 f.64
Fabaceae	*Amorpha herbacea* Walter	Sher-1456
Fabaceae	*Amorpha herbacea* Walter	H.S. 212 f.65
Fabaceae	*Apios americana* Medikus	H.S. 232 f.138
Fabaceae	*Astragalus michauxii* (Kuntze) F.J. Herm.	Hort-039-045
Fabaceae	*Astragalus michauxii* (Kuntze) F.J. Herm.	H.S. 212 f.58b
Fabaceae	*Astragalus michauxii* (Kuntze) F.J. Herm.	H.S. 212 f.62
Fabaceae	*Astragalus michauxii* (Kuntze) F.J. Herm.	Sher-1562
Fabaceae	*Astragalus michauxii* (Kuntze) F.J. Herm.	00087381R
Fabaceae	*Baptisia albescens* Small	00087388Y
Fabaceae	*Baptisia albescens* Small	00087404N
Fabaceae	*Baptisia albescens* Small	00087443Q
Fabaceae	*Baptisia albescens* Small	00095716S
Fabaceae	*Baptisia albescens* Small	H.S. 212 f.53
Fabaceae	*Baptisia albescens* Small	H.S. 212 f.54
Fabaceae	*Baptisia albescens* Small	00087389Z
Fabaceae	*Baptisia bracteata* Elliott	00087391S

Fabaceae	*Baptisia bracteata* Elliott	H.S. 212 f.20
Fabaceae	*Baptisia cinerea* (Raf.) Fernald & Schubert	00087395W
Fabaceae	*Baptisia perfoliata* (L.) R. Brown ex Aiton	H.S. 212 f.58b
Fabaceae	*Baptisia perfoliata* (L.) R. Brown ex Aiton	H.S. 232 f.72
Fabaceae	*Baptisia perfoliata* (L.) R. Brown ex Aiton	00087327R
Fabaceae	*Baptisia perfoliata* (L.) R. Brown ex Aiton	Hort-102-122a
Fabaceae	*Baptisia tinctoria* (L.) Ventenat	H.S. 212 f.28
Fabaceae	*Baptisia tinctoria* (L.) Ventenat	H.S. 232 f.108
Fabaceae	*Baptisia tinctoria* (L.) Ventenat	00087447U
Fabaceae	*Cercis canadensis* L.	00087428T
Fabaceae	*Cercis canadensis* L.	00095694X
Fabaceae	*Cercis canadensis* L.	H.S. 212 f.2
Fabaceae	*Chamaecrista fasciculata* (Michx.) Greene	00087398Z
Fabaceae	*Chamaecrista nictitans* (Michx.) Greene	H.S. 232 f.46
Fabaceae	*Clitoria mariana* L.	Sher-1479
Fabaceae	*Clitoria mariana* L.	00095732Q
Fabaceae	*Dalea pinnata* (J.F. Gmel.) Barneby	H.S. 212 f.90
Fabaceae	*Dalea pinnata* (J.F. Gmel.) Barneby	Sher-1423-x
Fabaceae	*Dalea pinnata* (J.F. Gmel.) Barneby	00087314N
Fabaceae	*Dalea pinnata* (J.F. Gmel.) Barneby	00087369X
Fabaceae	*Desmodium canescens* (L.) A.P. de Candolle	00087419T
Fabaceae	*Desmodium paniculatum* (L.) DC.	Sher-1529
Fabaceae	Indet.	00087201I
Fabaceae	Indet.	00095704P
Fabaceae	*Galactia regularis* (L.) BSP	H.S. 232 f.112
Fabaceae	*Galactia regularis* (L.) BSP	00087394V
Fabaceae	*Galactia volubilis* (L.) Britton	00087408R
Fabaceae	*Galactia volubilis* (L.) Britton	H.S. 212 f.91
Fabaceae	*Gleditsia aquatica* Marshall	Sher-2298
Fabaceae	*Gleditsia aquatica* Marsh.	H.S. 212 f.61
Fabaceae	*Hylodesmum glutinosum* (Muhlenberg ex Willdenow) H. Ohashi & R.R. Mill	Sher-1526-3
Fabaceae	*Hylodesmum glutinosum* (Muhlenberg ex Willdenow) H. Ohashi & R.R. Mill	00087226P
Fabaceae	*Hylodesmum glutinosum* (Muhlenberg ex Willdenow) H. Ohashi & R.R. Mill	00087392T
Fabaceae	*Hylodesmum glutinosum* (Muhlenberg ex Willdenow) H. Ohashi & R.R. Mill	00087415P
Fabaceae	*Hylodesmum glutinosum* (Muhlenberg ex Willdenow) H. Ohashi & R.R. Mill	H.S. 212 f.38
Fabaceae	*Hylodesmum glutinosum* (Muhlenberg ex Willdenow) H. Ohashi & R.R. Mill	H.S. 232 f.70
Fabaceae	Indet.	00087223M
Fabaceae	*Indigofera tinctoria* L.	H.S. 232 f.106
Fabaceae	*Lespedeza capitata* Michx.	Sher-1570
Fabaceae	*Lespedeza hirta* (L.) Hornemann var. *curtissii* (Clewell) Isely	00087382S
Fabaceae	*Lespedeza hirta* (L.) Hornemann var. *curtissii* (Clewell) Isely	00087386W
Fabaceae	*Lespedeza hirta* (L.) Hornemann var. *curtissii* (Clewell) Isely	Sher-1511-2

Fabaceae	*Lespedeza hirta* (L.) Hornemann var. *curtissii* (Clewell) Isely	Sher-1512
Fabaceae	*Lespedeza hirta* (L.) Hornemann var. *curtissii* (Clewell) Isely	H.S. 232 f.44
Fabaceae	*Lespedeza hirta* (L.) Hornemann var. *curtissii* (Clewell) Isely	H.S. 232 f.63
Fabaceae	*Lespedeza* sp.	00087403M
Fabaceae	*Lespedeza virginica* (L.) Britton	H.S. 212 f.93
Fabaceae	*Lespedeza virginica* (L.) Britton	00087412M
Fabaceae	*Lupinus diffusus* Nutt.	H.S. 212 f.57
Fabaceae	*Lupinus diffusus* Nutt.	00087399-
Fabaceae	*Lupinus perennis* L.	00087387X
Fabaceae	*Lupinus perennis* L.	Sher-4275
Fabaceae	*Lupinus villosus* Willd.	H.S. 212 f.57
Fabaceae	*Lupinus villosus* Willd.	Sher-1471
Fabaceae	*Mimosa microphylla* Dryander	00087432O
Fabaceae	*Mimosa quadrivalvis* L.	H.S. 232 f.107
Fabaceae	*Orbexilum pedunculatum* (P. Miller) Rydberg var. *psoralioides* (Walter) Isely	Sher-1573-2
Fabaceae	*Orbexilum pedunculatum* (P. Miller) Rydberg var. *psoralioides* (Walter) Isely	00087407Q
Fabaceae	*Orbexilum pedunculatum* (P. Miller) Rydberg var. *psoralioides* (Walter) Isely	H.S. 212 f.23
Fabaceae	*Orbexilum pedunculatum* (P. Miller) Rydberg var. *psoralioides* (Walter) Isely	H.S. 232 f.119
Fabaceae	*Orbexilum pedunculatum* (P. Miller) Rydberg var. *psoralioides* (Walter) Isely	H.S. 232 f.121
Fabaceae	*Pediomelum canescens* (Michx.) Rydberg	00087393U
Fabaceae	*Pediomelum canescens* (Michx.) Rydberg	Sher-1508
Fabaceae	*Pediomelum canescens* (Michx.) Rydberg	H.S. 212 f.41
Fabaceae	*Pediomelum canescens* (Michx.) Rydberg	H.S. 232 f.38
Fabaceae	*Phaseolus polystachios* (L.) BSP	H.S. 212 f.39
Fabaceae	*Phaseolus* sp.	00087215N
Fabaceae	*Phaseolus* sp.	00095736U
Fabaceae	*Rhynchosia tomentosa* (L.) Hooker & Arnott	Sher-1509
Fabaceae	*Rhynchosia tomentosa* (L.) Hooker & Arnott	00087416Q
Fabaceae	*Rhynchosia tomentosa* (L.) Hooker & Arnott	Sher-1491
Fabaceae	*Rhynchosia tomentosa* (L.) Hooker & Arnott	H.S. 232 f.83
Fabaceae	*Robinia hartwigii* Koehne	00087400J
Fabaceae	*Robinia hartwigii* Koehne	Sher-1516
Fabaceae	*Robinia hartwigii* Koehne	00087396X
Fabaceae	*Robinia hispida* L. var. *hispida*	Sher-1514
Fabaceae	*Robinia hispida* L. var. *hispida*	Sher-1514-2
Fabaceae	*Robinia nana* Elliott	00087384U
Fabaceae	*Senna occidentalis* (L.) Link	H.S. 212 f.1
Fabaceae	*Senna occidentalis* (L.) Link	H.S. 212 f.81
Fabaceae	*Senna* sp.	00087411L
Fabaceae	*Stylosanthes biflora* (L.) BSP	H.S. 232 f.119
Fabaceae	*Tephrosia spicata* (Walter) Torr. & A. Gray	H.S. 232 f.28
Fabaceae	*Tephrosia spicata* (Walter) Torr. & A. Gray	00087420L
Fabaceae	*Tephrosia spicata* (Walter) Torr. & A. Gray	H.S. 232 f.119

Fabaceae	*Tephrosia virginiana* (L.) Pers.	H.S. 212 f.56
Fabaceae	*Tephrosia virginiana* (L.) Pers.	00087385V
Fabaceae	*Tephrosia virginiana* (L.) Pers.	Sher-1555
Fabaceae	*Trifolium reflexum* L.	00087383T
Fabaceae	*Wisteria fructescens* (L.) Poiret	Sher-1492
Fagaceae	*Castanea pumila* (L.) Mill	H.S. 232 f.36
Fagaceae	*Castanea pumila* (L.) Mill	00095678Z
Fagaceae	*Castanea pumila* (L.) Mill	00087182Q
Fagaceae	*Castanea pumila* (L.) Mill	Sher-2148
Fagaceae	*Quercus alba* L.	00095696Z
Fagaceae	*Quercus alba* L.	00095764V
Fagaceae	*Quercus alba* L.	H.S. 232 f.91
Fagaceae	*Quercus falcata* Michx.	00095791V
Fagaceae	*Quercus hemisphaerica* Bartram ex Willd.	00087180O
Fagaceae	*Quercus incana* Bartram	H.S. 212 f.78
Fagaceae	*Quercus laevis* Walter	Sher-2136
Fagaceae	*Quercus laevis* Walter	H.S. 232 f.88
Fagaceae	*Quercus laevis* Walter	H.S. 212 f.78
Fagaceae	*Quercus marilandica* Muenchh.	H.S. 232 f.93
Fagaceae	*Quercus marilandica* Muenchh.	00087188W
Fagaceae	*Quercus marilandica* Muenchh.	Sher-2126
Fagaceae	*Quercus michauxii* Nutt.	H.S. 212 f.5
Fagaceae	*Quercus michauxii* Nutt.	H.S. 232 f.14
Fagaceae	*Quercus michauxii* Nutt.	00095780T
Fagaceae	*Quercus michauxii* Nutt.	00095772U
Fagaceae	*Quercus michauxii* Nutt.	00095783W
Fagaceae	*Quercus michauxii* Nutt.	00095787-
Fagaceae	*Quercus michauxii* Nutt.	Sher-2131-5
Fagaceae	*Quercus michauxii* Nutt.	00095776Y
Fagaceae	*Quercus nigra* L.	00095679-
Fagaceae	*Quercus nigra* L.	Sher-2128-2
Fagaceae	*Quercus nigra* L.	H.S. 232 f.96
Fagaceae	*Quercus pagoda* Raf.	00095795Z
Fagaceae	*Quercus pagoda* Raf.	Sher-2136-2
Fagaceae	*Quercus phellos* L.	00095768Z
Fagaceae	*Quercus phellos* L.	00095799$
Fagaceae	*Quercus phellos* L.	H.S. 232 f.98
Fagaceae	*Quercus phellos* L.	H.S. 212 f.77
Fagaceae	*Quercus rubra* L.	00095784X
Fagaceae	*Quercus stellata* Wangenheim	00095760R
Fagaceae	*Quercus velutina* Lam.	00087227Q
Fagaceae	*Quercus virginiana* Mill.	H.S. 212 f.81
Fagaceae	*Quercus virginiana* Mill.	00087205M
Fagaceae	*Quercus virginiana* Mill.	Sher-2124
Gentianaceae	*Gentiana catesbaei* Walter	Sher-0607
Gentianaceae	*Gentiana catesbaei* Walter	H.S. 212 f.87
Gentianaceae	*Sabatia angularis* (L.) Pursh	00087556V
Gentianaceae	*Sabatia angularis* (L.) Pursh	H.S. 212 f.7
Gentianaceae	*Sabatia calycina* (Lam.) Heller	Sher-0776
Gentianaceae	*Sabatia calycina* (Lam.) Heller	00087552R
Gentianaceae	*Sabatia campanulata* (L.) Torrey	00087225O

Gentianaceae	*Sabatia difformis* (L.) Druce	H.S. 232 f.105
Gentianaceae	*Sabatia quadrangula* Wilbur	Sher-0477
Gentianaceae	*Sabatia stellaris* Pursh	H.S. 232 f.128
Hamamelidaceae	*Hamamelis virginiana* L.	Sher-0246
Hamamelidaceae	*Hamamelis virginiana* L.	Sher-0247
Hamamelidaceae	*Hamamelis virginiana* L.	00087354R
Hamamelidaceae	*Hamamelis virginiana* L.	00095683V
Hamamelidaceae	*Hamamelis virginiana* L.	Sher-0246-2
Hamamelidaceae	*Hamamelis virginiana* L.	H.S. 212 f.4
Hydrangeaceae	*Decumaria barbara* L.	Sher-0942
Hydrangeaceae	*Hydrangea arborescens* L.	H.S. 212 f.55
Hydrangeaceae	*Hydrangea arborescens* L.	00087219R
Hydrangeaceae	*Hydrangea radiata* Walter	H.S. 232 f.55
Hydrangeaceae	*Philadelphus inodorus* L.	00087444R
Hydrangeaceae	*Philadelphus inodorus* L.	Sher-0994-2
Hydrangeaceae	*Philadelphus inodorus* L.	H.S. 212 f.16
Hypericaceae	*Hypericum cistifolium* Lam.	Sher-1587
Hypericaceae	*Hypericum crux-andreae* (L.) Crantz	00087288X
Hypericaceae	*Hypericum crux-andreae* (L.) Crantz	00087291R
Hypericaceae	*Hypericum crux-andreae* (L.) Crantz	00087292S
Hypericaceae	*Hypericum crux-andreae* (L.) Crantz	Sher-1597
Hypericaceae	*Hypericum crux-andreae* (L.) Crantz	Sher-1597-1
Hypericaceae	*Hypericum crux-andreae* (L.) Crantz	H.S. 212 f.50
Hypericaceae	*Hypericum denticulatum* Walter	Sher-1594
Hypericaceae	*Hypericum galioides* Lam.	Sher-1596
Hypericaceae	*Hypericum galioides* Lam.	00087295V
Hypericaceae	*Hypericum tubulosum* Walter	Sher-1598
Hypericaceae	*Hypericum virgatum* Lam.	Sher-1588
Hypericaceae	*Hypericum virginicum* L.	00087284T
Hypericaceae	*Hypericum walteri* J.G. Gmelin	H.S. 232 f.76
Iteaceae	*Itea virginica* L.	00087189X
Iteaceae	*Itea virginica* L.	00095697-
Iteaceae	*Itea virginica* L.	H.S. 232 f.80
Iteaceae	*Itea virginica* L.	H.S. 212 f.15
Juglandaceae	*Carya tomentosa* (Lam. ex Poiret) Nuttall	00087459X
Juglandaceae	*Carya tomentosa* (Lam. ex Poiret) Nuttall	00087463S
Juglandaceae	*Carya tomentosa* (Lam. ex Poiret) Nuttall	00087467W
Juglandaceae	*Carya tomentosa* (Lam. ex Poiret) Nuttall	Sher-sn-n
Juglandaceae	*Carya tomentosa* (Lam. ex Poiret) Nuttall	H.S. 232 f.94
Juglandaceae	*Carya tomentosa* (Lam. ex Poiret) Nuttall	H.S. 232 f.97
Juglandaceae	*Carya tomentosa* (Lam. ex Poiret) Nuttall	H.S. 212 f.3
Lamiaceae	*Callicarpa americana* L.	00087233N
Lamiaceae	*Callicarpa americana* L.	Sher-0220
Lamiaceae	*Clinopodium georgianum* R.M. Harper	00087477X
Lamiaceae	*Collinsonia canadensis* L.	Sher-0043
Lamiaceae	*Collinsonia canadensis* L.	H.S. 232 f.75
Lamiaceae	*Collinsonia tuberosa* Michx.	00087497Z
Lamiaceae	*Collinsonia tuberosa* Michx.	H.S. 212 f.8
Lamiaceae	*Hyptis alata* (Raf.) Shinners	00087373S
Lamiaceae	*Hyptis alata* (Raf.) Shinners	H.S. 212 f.43
Lamiaceae	*Hyptis alata* (Raf.) Shinners	Sher-1176

Lamiaceae	*Hyptis alata* (Raf.) Shinners	00087373S
Lamiaceae	*Hyptis alata* (Raf.) Shinners	00087473T
Lamiaceae	Indet.	H.S. 212 f.76
Lamiaceae	Indet.	H.S. 232 f.131
Lamiaceae	*Lycopus americanus* Muhlenberg ex W. Barton	00087513O
Lamiaceae	*Lycopus virginicus* L.	H.S. 212 f.9
Lamiaceae	*Monarda punctata* L.	00087450O
Lamiaceae	*Monarda punctata* L.	H.S. 232 f.103
Lamiaceae	*Monarda punctata* L.	Sher-0035-2
Lamiaceae	*Monarda punctata* L.	H.S. 212 f.48
Lamiaceae	*Monarda punctata* L.	H.S. 212 f.6
Lamiaceae	*Nepeta cataria* L.	00087449W
Lamiaceae	*Physostegia purpurea* (Walter) Blake	00087460P
Lamiaceae	*Physostegia purpurea* (Walter) Blake	00087509T
Lamiaceae	*Physostegia purpurea* (Walter) Blake	Sher-1191
Lamiaceae	*Physostegia purpurea* (Walter) Blake	H.S. 232 f.121
Lamiaceae	*Prunella vulgaris* L.	00087454S
Lamiaceae	*Prunella vulgaris* L. var. *lanceolata* (W. Barton) Fernald	00087461Q
Lamiaceae	*Prunella vulgaris* L. var. *lanceolata* (W. Barton) Fernald	H.S. 212 f.63
Lamiaceae	*Pycnanthemum flexuosum* (Walter) BSP	H.S. 212 f.75
Lamiaceae	*Pycnanthemum flexuosum* (Walter) BSP	H.S. 232 f.137
Lamiaceae	*Pycnanthemum flexuosum* (Walter) BSP	Sher-1178
Lamiaceae	*Pycnanthemum flexuosum* (Walter) BSP	Sher-1180
Lamiaceae	*Pycnanthemum flexuosum* (Walter) BSP	00087457V
Lamiaceae	*Pycnanthemum flexuosum* (Walter) BSP	00087481S
Lamiaceae	*Pycnanthemum flexuosum* (Walter) BSP	00087493V
Lamiaceae	*Pycnanthemum flexuosum* (Walter) BSP	H.S. 212 f.55
Lamiaceae	*Pycnanthemum pycnanthemoides* (Leavenworth) Fernald	00087505P
Lamiaceae	*Pycnanthemum pycnanthemoides* (Leavenworth) Fernald var. *pycnanthemoides*	H.S. 212 f.26
Lamiaceae	*Salvia lyrata* L.	H.S. 212 f.22
Lamiaceae	*Salvia lyrata* L.	H.S. 212 f.62
Lamiaceae	*Salvia urticifolia* L.	00087485W
Lamiaceae	*Scutellaria elliptica* Muhl. ex Spreng.	H.S. 212 f.27
Lamiaceae	*Scutellaria elliptica* Muhl. ex Spreng.	Sher-1205
Lamiaceae	*Scutellaria integrifolia* L.	00087465U
Lamiaceae	*Scutellaria integrifolia* L.	00087469Y
Lamiaceae	*Stachys hispida* Pursh	Sher-1164
Lamiaceae	*Stachys hispida* Pursh	Sher-1165
Lamiaceae	*Stachys hispida* Pursh	00087453R
Lamiaceae	*Stachys* indet., most likely *Stachys nuttallii* Shuttleworth ex Bemtham	H.S. 212 f.29
Lamiaceae	*Stachys* indet., most likely *Stachys nuttallii* Shuttleworth ex Bemtham	00087489-
Lamiaceae	*Teucrium canadense* L.	Sher-1152
Lamiaceae	*Teucrium canadense* L.	H.S. 232 f.37
Lamiaceae	*Trichostema dichotomum* L.	Sher-1187
Lamiaceae	*Trichostema dichotomum* L.	Sher-1204

Lamiaceae	*Trichostema dichotomum* L.	H.S. 212 f.74
Lentibulariaceae	*Pinguicula caerulea* Walter	Sher-0021
Lentibulariaceae	*Utricularia subulata* L.	Sher-0022
Loganiaceae	*Spigelia marilandica* (L.) L.	00087183R
Loganiaceae	*Spigelia marilandica* (L.) L.	00087423O
Loganiaceae	*Spigelia marilandica* (L.) L.	H.S. 212 f.33
Malvaceae	*Hibiscus aculeatus* Walter	00087272Q
Malvaceae	*Hibiscus aculeatus* Walter	Sher-sn-b
Malvaceae	*Hibiscus moscheutos* L.	H.S. 232 f.109
Malvaceae	*Kosteletzkya pentacarpos* (L.) Ledebour	00087280P
Malvaceae	*Kosteletzkya pentacarpos* (L.) Ledebour	H.S. 212 f.92
Malvaceae	*Modiola caroliniana* (L.) G. Don	Sher-sn-d
Malvaceae	*Modiola caroliniana* (L.) G. Don	Hort-004-004
Malvaceae	*Modiola caroliniana* (L.) G. Don	00087276U
Malvaceae	*Sida rhombifolia* L.	00095695Y
Malvaceae	*Sida rhombifolia* L.	H.S. 212 f.51
Malvaceae	*Sida rhombifolia* L.	H.S. 212 f.50
Malvaceae	*Tilia americana* L.	00087235P
Malvaceae	*Tilia americana* L.	00087260N
Malvaceae	*Tilia americana* L.	Sher-1096
Malvaceae	*Tilia americana* L.	00087256S
Malvaceae	*Tilia americana* L. var. *heterophylla* (Vent.) Louden	H.S. 212 f.69
Melastomataceae	*Rhexia alifanus* Walter	00087350N
Melastomataceae	*Rhexia alifanus* Walter	Sher-0769
Melastomataceae	*Rhexia alifanus* Walter	Sher-0769-3
Melastomataceae	*Rhexia alifanus* Walter	H.S. 212 f.43
Melastomataceae	*Rhexia alifanus* Walter	H.S. 232 f.110
Melastomataceae	*Rhexia nashii* Small	00087187V
Melastomataceae	*Rhexia nashii* Small	Sher-0770
Melastomataceae	*Rhexia virginica* L.	H.S. 232 f.134
Menispermaceae	*Cocculus carolinus* (L.) DC	Hort-178-219b
Menispermaceae	*Cocculus carolinus* (L.) DC	H.S. 212 f.95
Menispermaceae	*Cocculus carolinus* (L.) DC	H.S. 232 f.104
Menispermaceae	*Cocculus carolinus* (L.) DC	H.S. 232 f.41
Menispermaceae	*Menispermum canadense* L.	00087198X
Menispermaceae	*Menispermum canadense* L.	H.S. 212 f.21
Menyanthaceae	*Nymphoides aquatica* (Walter ex J.F. Gmelin) Kuntze	00087311K
Moraceae	*Morus rubra* L.	Sher-2078
Moraceae	*Morus rubra* L.	00087206N
Moraceae	*Morus rubra* L.	H.S. 232 f.92
Myricaceae	*Morella caroliniensis* (P. Miller) Small	00095807T
Nelumbonaceae	*Nelumbo lutea* Willdenow	Sher-1090
Nelumbonaceae	*Nelumbo lutea* Willdenow	00087310J
Nyctaginaceae	*Boerhavia erecta* L.	00087433P
Nyssaceae	*Nyssa aquatica* L.	Sher-2306
Nyssaceae	*Nyssa aquatica* L.	H.S. 232 f.52
Nyssaceae	*Nyssa aquatica* L.	H.S. 212 f.67
Nyssaceae	*Nyssa biflora* Walter	Sher-2305
Nyssaceae	*Nyssa sylvatica* Marshall	00087194T

Nyssaceae	*Nyssa sylvatica* Marshall	H.S. 212 f.77
Nyssaceae	*Nyssa* sp.	00087236Q
Nyssaceae	*Nyssa* sp.	H.S. 212 f.3
Oleaceae	*Fraxinus pennsylvanica* Marsh.	H.S. 212 f.11
Oleaceae	*Fraxinus pennsylvanica* Marsh.	00087244P
Oleaceae	*Osmanthus americanus* (L.) Benth. & Hook. f. ex A. Gray	H.S. 212 f.22
Onagraceae	*Ludwigia alternifolia* L.	Sher-0292
Onagraceae	*Ludwigia alternifolia* L.	00087199Y
Onagraceae	*Ludwigia pilosa* Walter	Sher-0293
Onagraceae	*Ludwigia pilosa* Walter	H.S. 212 f.47
Onagraceae	*Ludwigia pilosa* Walter	H.S. 212 f.52
Onagraceae	*Ludwigia* sp.	00087237R
Onagraceae	*Ludwigia virgata* Michx.	H.S. 212 f.52
Onagraceae	*Oenothera filipes* (Spach) W. L. Wagner & Hoch	Sher-0785
Onagraceae	*Oenothera filipes* (Spach) W. L. Wagner & Hoch	H.S. 232 f.44
Onagraceae	*Oenothera filipes* (Spach) W. L. Wagner & Hoch	H.S. 232 f.115
Onagraceae	*Oenothera fruticosa* L.	00087346S
Onagraceae	*Oenothera fruticosa* L.	Sher-0773
Onagraceae	*Oenothera laciniata* Hill	Sher-0780
Onagraceae	*Oenothera laciniata* Hill	00095728V
Onagraceae	*Oenothera simulans* (Small) W.L. Wagner & Hoch	Sher-0790
Orobanchaceae	*Agalinis fasciculata* (Elliott) Raf.	Sher-1243
Orobanchaceae	*Agalinis purpurea* (L.) Pennell	H.S. 212 f.73
Orobanchaceae	*Agalinis setacea* (J.F. Gmelin) Raf.	Sher-1243
Orobanchaceae	*Aureolaria pedicularia* (L.) Raf.	Sher-1230
Orobanchaceae	*Aureolaria virginica* (L.) Pennell	Sher-1229
Orobanchaceae	*Aureolaria virginica* (L.) Pennell	Sher-1238
Orobanchaceae	*Epifagus virginiana* (L.) W. Barton	00087202J
Orobanchaceae	*Epifagus virginiana* (L.) W. Barton	H.S. 232 f.99
Orobanchaceae	*Pedicularis canadensis* L.	H.S. 232 f.78
Orobanchaceae	*Pedicularis canadensis* L.	H.S. 212 f.19
Orobanchaceae	*Pedicularis canadensis* L.	H.S. 212 f.19
Orobanchaceae	*Seymeria cassioides* (J.F. Gmel.) Blake	H.S. 212 f.72
Orobanchaceae	*Seymeria cassioides* (J.F. Gmel.) Blake	H.S. 212 f.73
Orobanchaceae	*Seymeria cassioides* (J.F. Gmel.) Blake	Sher-1234-2
Orobanchaceae	*Seymeria pectinata* Pursh	Sher-1233
Orobanchaceae	*Seymeria pectinata* Pursh	H.S. 232 f.126
Orobanchaceae	*Seymeria pectinata* Pursh	00087532P
Oxalidaceae	*Oxalis florida* Salisbury	Sher-0927
Oxalidaceae	*Oxalis florida* Salisbury	00087275T
Penthoraceae	*Penthorum sedoides* L.	00087221K
Phrymaceae	*Phryma leptostachya* L.	00095701M
Plantaginaceae	*Bacopa monnieri* (L.) Wettstein	H.S. 212 f.47
Plantaginaceae	*Bacopa monnieri* (L.) Wettstein	00087536T
Plantaginaceae	*Bacopa monnieri* (L.) Wettstein	Sher-0019
Plantaginaceae	*Nuttallanthus canadensis* (L.) D.A. Sutton *Linaria canadensis*	Sher-1244
Plantaginaceae	*Penstemon australis* Small	Sher-1240
Plantaginaceae	*Penstemon laevigatus* Aiton	Sher-1242

Plantaginaceae	*Penstemon laevigatus* Aiton	00087524Q
Plantaginaceae	*Plantago virginica* L.	Sher-0223
Plantaginaceae	*Plantago virginica* L.	00087429U
Platanaceae	*Platanus occidentalis* L.	00087196V
Platanaceae	*Platanus occidentalis* L.	00095684W
Platanaceae	*Platanus occidentalis* L.	00095688-
Platanaceae	*Platanus occidentalis* L.	00095699
Platanaceae	*Platanus occidentalis* L.	00095707S
Platanaceae	*Platanus occidentalis* L.	H.S. 212 f.68
Podostemaceae	*Podostemum ceratophyllum* Michx.	H.S. 212 f.41
Polemoniaceae	*Ipomopsis rubra* (L.) Wherry	00087548W
Polemoniaceae	*Ipomopsis rubra* (L.) Wherry	H.S. 232 f.131
Polemoniaceae	*Phlox amoena* Sims	Sher-0300-2
Polemoniaceae	*Phlox amoena* Sims	Sher-0300
Polemoniaceae	*Phlox amoena* Sims	H.S. 212 f.62
Polemoniaceae	*Phlox maculata* L.	Sher-0304
Polemoniaceae	*Phlox pilosa* L.	Sher-0306
Polygalaceae	*Polygala cruciata* L.	00095690T
Polygalaceae	*Polygala cruciata* L.	Sher-1433
Polygalaceae	*Polygala cruciata* L.	H.S. 212 f.21
Polygalaceae	*Polygala grandiflora* Walter	H.S. 232 f.30
Polygalaceae	*Polygala lutea* L.	00087300I
Polygalaceae	*Polygala lutea* L.	Sher-1434
Polygalaceae	*Polygala lutea* L.	H.S. 212 f.49
Polygalaceae	*Polygala lutea* L.	H.S. 212 f.59
Polygalaceae	*Polygala lutea* L.	H.S. 232 f.118
Polygalaceae	*Polygala mariana* P. Miller	H.S. 232 f.124
Polygalaceae	*Polygala polygama* Walter	Sher-1429
Polygalaceae	*Polygala polygama* Walter	00087304M
Polygalaceae	*Polygala polygama* Walter	00087308Q
Polygalaceae	*Polygala polygama* Walter	H.S. 212 f.31
Polygalaceae	*Polygala polygama* Walter	H.S. 232 f.68
Polygalaceae	*Polygala ramosa* Elliott	00087195U
Polygalaceae	*Polygala ramosa* Elliott	00087241M
Polygalaceae	*Polygala ramosa* Elliott	00087504O
Polygalaceae	*Polygala ramosa* Elliott	H.S. 212 f.58b
Polygonaceae	*Brunnichia ovata* (Walter) Shinners	Sher-0908X
Polygonaceae	*Brunnichia ovata* (Walter) Shinners	H.S. 232 f.101
Polygonaceae	*Eriogonum tomentosum* Michx.	H.S. 232 f.43
Polygonaceae	*Eriogonum tomentosum* Michx.	00087417R
Polygonaceae	*Eriogonum tomentosum* Michx.	00087421M
Polygonaceae	*Eriogonum tomentosum* Michx.	00087425Q
Polygonaceae	*Indet.*	00095686Y
Polygonaceae	*Persicaria virginiana* (L.) Gaertner	H.S. 232 f.39
Primulaceae	*Lysimachia ciliata* L.	Sher-0287-4
Primulaceae	*Lysimachia ciliata* L.	00087418S
Primulaceae	*Lysimachia ciliata* L.	H.S. 212 f.37
Primulaceae	*Lysimachia fraseri* Duby	Sher-0288
Primulaceae	*Lysimachia fraseri* Duby	type
Primulaceae	*Lysimachia fraseri* Duby	00087438U
Primulaceae	*Lysimachia fraseri* Duby	H.S. 212 f.36

Primulaceae	*Lysimachia quadrifolia* L.	00087434Q
Primulaceae	*Lysimachia quadrifolia* L.	H.S. 212 f.18
Ranunculaceae	*Actaea racemosa* L.	H.S. 232 f.61
Ranunculaceae	*Clematis catesbyana* Pursh	00087213L
Ranunculaceae	*Clematis catesbyana* Pursh	holotype
Ranunculaceae	*Clematis catesbyana* Pursh	Sher-1135-3
Ranunculaceae	*Clematis crispa* L.	Sher-1132
Ranunculaceae	*Clematis crispa* L.	H.S. 232 f.122
Ranunculaceae	*Clematis ochroleuca* Aiton	Sher-1140
Ranunculaceae	*Clematis viorna* L.	H.S. 212 f.63
Ranunculaceae	*Delphinum carolinianum* Walter	Sher-1107
Ranunculaceae	*Delphinum carolinianum* Walter	H.S. 212 f.59
Ranunculaceae	*Thalictrum revolutum* DC	H.S. 212 f.29
Ranunculaceae	*Trautvetteria carolinensis* (Walter) Vail	Sher-1111
Ranunculaceae	*Trautvetteria carolinensis* (Walter) Vail	H.S. 212 f.56
Rhamnaceae	*Berchemia scandens* (Hill) K. Koch	H.S. 232 f.61
Rhamnaceae	*Ceanothus americanus* L	H.S. 232 f.68
Rhamnaceae	*Ceanothus americanus* L	00087435R
Rhamnaceae	*Ceanothus americanus* L	00087445S
Rhamnaceae	*Ceanothus americanus* L	H.S. 212 f.35
Rhamnaceae	*Ceanothus americanus* L	H.S. 212 f.76
Rosaceae	*Geum canadense* Jacq.	H.S. 212 f.56
Rosaceae	*Geum canadense* Jacq.	H.S. 232 f.125
Rosaceae	*Geum canadense* Jacq.	Sher-1662
Rosaceae	*Indet.*	00087207O
Rosaceae	*Prunus caroliniana* (P. Miller) Aiton	Sher-1005
Rosaceae	*Prunus caroliniana* (P. Miller) Aiton	Sher-2535
Rosaceae	*Prunus caroliniana* (P. Miller) Aiton	H.S. 212 f.12
Rosaceae	*Prunus umbellata* Elliott	H.S. 212 f.15
Rosaceae	*Rubus pensilvanicus* Poiret	H.S. 212 f.23
Rosaceae	*Rubus trivialis* Michx.	00087440N
Rubiaceae	*Cephalanthus occidentalis* L.	00087217P
Rubiaceae	*Cephalanthus occidentalis* L.	H.S. 232 f.59
Rutaceae	*Ptelea trifoliata* L.	00087228R
Rutaceae	*Ptelea trifoliata* L.	00087234O
Rutaceae	*Ptelea trifoliata* L.	00087252O
Rutaceae	*Ptelea trifoliata* L.	H.S. 232 f.86
Rutaceae	*Ptelea trifoliata* L.	H.S. 232 f.53
Rutaceae	*Ptelea trifoliata* L.	H.S. 212 f.66
Salicaceae	*Populus deltoides* Bartram ex Marsh.	H.S. 212 f.11
Salicaceae	*Populus deltoides* Bartram ex Marsh.	00087475V
Salicaceae	*Populus deltoides* Bartram ex Marsh.	00087479Z
Salicaceae	*Populus deltoides* Bartram ex Marsh.	00087483U
Salicaceae	*Populus heterophylla* L.	Sher-2234
Salicaceae	*Populus heterophylla* L.	H.S. 232 f.52
Sapindaceae	*Acer negundo* L.	00087397Y
Sapindaceae	*Acer negundo* L.	00087406P
Sapindaceae	*Acer negundo* L.	H.S. 212 f.12
Sapindaceae	*Acer rubrum* L.	00087414O
Sapindaceae	*Acer rubrum* L.	00087410K
Sapindaceae	*Acer rubrum* L. var. *rubrum*	H.S. 232 f.32

Sapindaceae	*Acer saccharinum* L.	00087410K
Sapindaceae	*Acer saccharinum* L.	Sher-2255
Sapindaceae	*Acer saccharinum* L.	00087402L
Sapindaceae	*Acer saccharinum* L.	H.S. 212 f.14
Sapotaceae	*Sideroxylon tenax* L.	00087193S
Sarraceniaceae	*Sarracenia minor* Walter	Sher-1086
Sarraceniaceae	*Sarracenia minor* Walter	Sher-1086-3
Sarraceniaceae	*Sarracenia minor* Walter	00087312L
Sarraceniaceae	*Sarracenia minor* Walter	H.S. 212 f.21
Sarraceniaceae	*Sarracenia minor* Walter	H.S. 212 f.45
Sarraceniaceae	*Sarracenia minor* Walter	H.S. 212 f.47
Sarraceniaceae	*Sarracenia rubra* Walter	Sher-1087
Sarraceniaceae	*Sarracenia rubra* Walter	H.S. 212 f.20
Solanaceae	*Physalis viscosa*	Sher-0423
Solanaceae	*Physalis angulata* L.	H.S. 212 f.46
Solanaceae	*Physalis* sp.	Hort-012-012b
Solanaceae	*Physalis* sp.	00087452Q
Solanaceae	*Physalis* sp.	00087456U
Solanaceae	*Solanum carolinense* L.	00087520M
Styracaceae	*Halesia tetraptera* Ellis	00095698
Styracaceae	*Halesia tetraptera* Ellis	Sher-2535-1
Styracaceae	*Styrax americanus* Lam.	00087211J
Styracaceae	*Styrax americanus* Lam.	Sher-sn-h
Styracaceae	*Styrax americanus* Lam.	H.S. 212 f.16
Styracaceae	*Styrax grandifolius* Aiton	Sher-0945
Tetrachondraceae	*Polypremum procumbens* L.	H.S. 232 f.136
Theaceae	*Gordonia lasianthus* (L.) Ellis	Sher-1583
Theaceae	*Gordonia lasianthus* (L.) Ellis	00087197W
Theaceae	*Gordonia lasianthus* (L.) Ellis	00087177U
Theaceae	*Gordonia lasianthus* (L.) Ellis	00087179W
Theaceae	*Gordonia lasianthus* (L.) Ellis	00087229S
Theaceae	*Gordonia lasianthus* (L.) Ellis	Sher-1583-3
Theaceae	*Gordonia lasianthus* (L.) Ellis	H.S. 212 f.13
Theaceae	*Gordonia lasianthus* (L.) Ellis	H.S. 232 f.50
Ulmaceae	*Ulmus rubra* Muhl.	Sher-0604
Ulmaceae	*Ulmus rubra* Muhl.	H.S. 212 f.70
Ulmaceae	*Ulmus* sp.	00095702N
Urticaceae	*Laportea canadensis* (L.) Weddell	H.S. 232 f.71
Verbenaceae	*Glandularia canadensis* (L.) Nutt	H.S. 212 f.58a
Verbenaceae	*Glandularia canadensis* (L.) Nutt	H.S. 212 f.22
Verbenaceae	*Glandularia canadensis* (L.) Nutt	00095692V
Verbenaceae	*Phyla nodiflora* (L.) Greene	Sher-0029
Verbenaceae	*Phyla nodiflora* (L.) Greene	00087476W
Verbenaceae	*Phyla nodiflora* (L.) Greene	H.S. 212 f.93
Violaceae	*Viola lanceolata* L. var. *vittata* (Greene) Weatherby & Griscom	Sher-0384
Violaceae	*Viola lanceolata* L. var. *vittata* (Greene) Weatherby & Griscom	00087302K
Violaceae	*Viola lanceolata* L. var. *vittata* (Greene) Weatherby & Griscom	H.S. 212 f.34
Violaceae	*Viola sororia* Willd.	H.S. 212 f.59

Vitaceae	*Ampelopsis arborea* (L.) Koehne	H.S. 232 f.59
Vitaceae	*Vitis aestivalis* Michx.	H.S. 232 f.87
Vitaceae	*Vitis aestivalis* Michx.	Sher-0524-2
Vitaceae	*Vitis rotundifolia* Michx.	Sher-0527

DISCUSSION

This list gives us a more complete picture of the plants that were growing in South Carolina in the 1720s and more insight into Catesby's thoughts and actions. We have found another endangered species, an interesting *Robinia*, and a number of species that are not thought to be native to the Carolinas.

Endangered Species

Habenaria

Habenaria quinqueseta (Michx.) A. Eaton, Sher-2009, is an orchid known as long-horned *Habenaria* or Michaux's Orchid. This orchid is known from wet pine flatwoods, most hardwood hammocks, Altamaha Grit outcrops and ditches from South Carolina south to Florida. McMillan believes that this species may now be extinct in South Carolina. He found a specimen at Webb Center in 1995, but since that time has never been able to relocate it. The Flora of the Southeast of the UNC Herbarium reports one specimen from Hampton County and other data sources from Beaufort, Charleston, and Berkeley Counties. ("US Southeast Flora Atlas" 2013) This species has an uncertain status in the state endangered species listing, where it is listed as a species of concern. ("DNR South Carolina Rare, Threatened & Endangered Species Inventory" 2013)

Robinia

Specimens of what we believe to be *Robinia hartwigii* Koehne, Granite Dome Locust, are on 00087400J, Sher-1516, and 00087396X. The branches of specimen 00087396X are hairy. They are dirty so the specimens were probably sticky. It is difficult to tell the *Robinia* species apart, but *R. hartwigii* is known from mountains of SC. McMillan and Robert McCartney recently found a colony of them in Aiken county on a site that is now an office park. The plant may no longer be extant in SC.

Catesby drew *Robinia* with a buffalo and described the animals' interactions with the plant:

> App 20 Bison Americanus
> This beast I have already described in the Account of Beasts, p 27, but having then by me only a sketch of the Animal, which I thought not sufficient to make a true figure from, I have since been enabled to exhibit a perfect likeness of this awful Creature
>
> Pseudo Acacia hispida floribus roseis
> The flowers and leaves differ little in their shape from the Pseudo Acacia flore albo The stalks and larger branches are thick set with prickly hairs, and with sharp spines placed alternately The flowers, which are papilionaceous are of a faint purple or rose-colour, and of a fragrant smell I never saw any of these trees but at one place near the Apalatchian mountains, where Bufellos had left their dung, and some of the trees had their branches pulled down, from which I conjecture they had been browsing on the leaves What with the bright verdure of the leaves, and the beauty of its flowers, few trees make a more elegant appearance I visited them again at the proper time to get some seeds, but the ravaging Indians had burn'd the woods many miles round, and totally destroyed them, to my great disappointment, so that all I was able to procure of this specious tree was some Specimens of it which remain in the Hortus siccus of Sir H Sloane, and that of Professor Dillenius at Oxford But since I am informed that a plant of this tree has been introduced from America by Sir John Colliton, Bart To his Gardens at Exmouth in Devonshire

The plant in these collections might be his buffalo specimen. If this is the case, this is further evidence that Catesby's route took him through the Aiken region.

Introduced species in Catesby's collections

Weakley (2011) has identified the following species as introduced or possibly introduced to the Carolinas:

Croton glandulosus L. var. *septentrionalis* Müller of Aargau	Sher-2069
Digitaria sanguinalis (L.) Scopoli	Sher-0125
Dysphania ambrosioides (L.) Mosyakin & Clemants	00087426R
Echinochloa crusgalli (L.) Palisot de Beauvois	00087523P
Eleusine indica (L.) Gaertn.	H.S. 212 f.85, 00087562S
Eragrostis cilianensis (Allioni) Vignolo ex Janchen	00087570R
Gaillardia pulchella Fougeroux var. *pulchella*	00087294U, Sher-1957
Hackelochloa granularis (L.) Kuntze	00087527T
Helianthus debilis Nuttall	Sher-1944-2
Indigofera tinctoria L.	H.S. 232 f.106
Ipomoea coccinea L.	H.S. 232 f.61
Jacquemontia tamnifolia (L.) Grisebach	00087560Q, Sher-0359
Modiola caroliniana (L.) G. Don	00087276U, Hort-004-004
Momordica charantia L.	Sher-2195
Nepeta cataria L.	00087449W
Prunella vulgaris L.	00087454S
Setaria pumila (Poir.) Roemer & Schultes	Sher-0116
Senna occidentalis (L.) Link	H.S. 212 f.1, H.S. 212 f.81
Sida rhombifolia L.	00095695Y, H.S. 212 f.51, H.S. 212 f.50
Stokesia laevis (Hill) Greene	Sher-1641
Tarenaya hassleriana (Chodat) H.H. Iltis *Cleome hassleriana* Chodat	00087297X

The presence of particular taxa in Catesby's collections may or may not be significant. It is impossible to know where he collected his specimens or the conditions in which they were growing. He certainly could have gathered plants from cultivated gardens. But it is also possible that some of the introduced plants he collected had already escaped from cultivation. It is also true that we do not know for certain that the plants in the herbaria were collected in Carolina; even the ones with handwritten notes claiming South Carolina provenance might have in fact been collected elsewhere. What we can say, however, is that the presence of these taxa in Catesby's collections strongly suggests that these plants were growing in South Carolina or possibly Georgia in the 1720s.

Charleston, South Carolina, was founded in 1670 and by 1690 had become one of the five largest cities in the colonies. It was a major port and a hub of trade between the American colonies and the Atlantic. Ships arrived in Charleston from many locations. Ships arriving from Africa brought slaves. Ships from England and the rest of Europe brought settlers and manufactured goods. Ships from the Caribbean and South America would also have stopped in at Charleston.

Catesby visited Carolina in the period between creation of the crown colony of Carolina in 1719 and the separation of South Carolina from North Carolina in 1729. He arrived fifty years after Charleston was established and after decades of transit and trade had moved around myriad plants and animals.

Some of the species in this list have unclear native ranges, with original distributions in the Americas or the Southeast, but uncertain distributions. These include *Dysphania ambrosioides* (L.) Mosyakin & Clemants (00087426R), *Gaillardia pulchella* Fougeroux var. *pulchella* (00087294U, Sher-1957), *Ipomoea coccinea* L. (H.S. 232 f.61), *Croton glandulosus* L. var. *septentrionalis* Müller of Aargau (Sher-2069). *Modiola caroliniana* (L.) G. Don (00087276U and Hort-004-004), may have been introduced into the southeastern United States, though some scholars believe it is native to South Carolina. Catesby could have collected *Helianthus debilis* Nutttall (Sher-1944-2) in Georgia or Florida, within its known native range.

Though *Stokesia laevis* (Hill) Greene is known to be naturalized from cultivation at least in North Carolina, Weakley believes that it was most likely native to South Carolina. Gene Everett (College of Charleston) has recently found the plant growing in a natural state in pine savannah in the Francis Marion National Forest. Based on Catesby's collection and this recent rediscovery, *Stokesia laevis* should be presumed to native to South Carolina.

Senna occidentalis (L.) Link (H.S. 212 f.1, H.S. 212 f.81) is a native of the Old World tropics, though it is now pantropical. *Sida rhombifolia* L. (00095695Y, H.S. 212 f.51, H.S. 212 f.50) is thought to be introduced from New World tropics.

Several introduced Old World grasses appear in Catesby's collection. These include *Digitaria sanguinalis* (L.) Scopoli (Sher-0125), *Echinochloa crusgalli* (L.) Palisot de Beauvois (00087523P), *Eleusine indica* (L.) Gaertn. (H.S. 212 f.85, 00087562S), *Eragrostis cilianensis* (Allioni) Vignolo ex Janchen (00087570R), and *Hackelochloa granularis* (L.) Kuntze (00087527T). *Setaria pumila* (Poir.) Roemer & Schultes (Sher-0116) is an Old World native, now widespread in the Southeast. (Agnes Chase examined this specimen in the early 20th century; she identified the plants on this sheet as a mix of *Setaria parviflora* and *Chaetochloa lutescens*.) *Nepeta cataria* L. (00087449W) is catnip, a common garden herb native to Eurasia. It is easy to imagine a colonist bringing seeds from Europe to start an herb garden in Carolina.

Weakley writes that the original range of *Jacquemontia tamnifolia* (L.) Grisebach (00087560Q, Sher-0359) is difficult to determine. It is currently uncommon in SC, though it is found from southeast Virginia to Florida as well as in the West Indies, Central America, and South America. Weakley believes that it is adventive in the Carolinas, reporting the first collections of the species in NC in 1938 and 1950, from disturbed areas. The note on 00087560Q reads "Sent from South Carolina by Mr. Mark Catesby, anno 1723." The notations on Sher-0359 read "Convolvulus Carolinianus … ??? and "Mr. Catesby S. Carolina 1723."

Spiderflower

Tarenaya hassleriana (Chodat) H.H. Iltis (syn. *Cleome hassleriana* Chodat, 00087297X), is the spiderflower or spider plant commonly grown as an ornamental. The note on the bottom of the herbarium sheet reads "Sent from South Carolina by Mr. Mark Catesby." This species is native to South America. The Flora of North America describes it thus: "*Tarenaya hassleriana* is native to Argentina, Brazil, and Paraguay. It is often cultivated and has sometimes escaped and naturalized. In cultivation and various floras, it has long been treated under the name *Cleome spinosa*….." ("*Tarenaya Hassleriana*" 2013).

Did Catesby really find this plant in South Carolina? It is plausible; certainly there had been traffic between the cleome's native range and the Carolinas for decades by the time he visited. Cleome was apparently a favorite of Thomas Jefferson, who grew it in his gardens at Monticello; construction on the house began in 1768 and work on house and gardens continued for several decades. The plant is an aggressive self-seeder. ("Thomas Jefferson's Monticello" 2013)

Balsam apple

Momordica charantia L., Sher-2195, commonly known as Balsam pear, balsam apple, bitter melon, and bitter gourd , is a tendrilled vine with deeply dissected leaves characteristic of the cucumber family, Cucurbitaceae. (The related species *Momordica balsamina*, also goes by some of those same common names.) The notes on the specimen page read: "Bryonia. Cucumis parvus Marianus, Bryonia alba foliis minoribus, polycarpus Pluk. Manu (?) 59" and "Mr. Catesby S. Carolina USA(?) from the upper part of the country." This suggests that Catesby collected this plant some distance from the coast.

According to Weakley, the vines of the genus *Momordica* are native to the Old World tropics. *M. charantia* is a native of Africa. Weakley's flora contains no distribution map for *M. charantia* (though it does for *M. balsamina*), and notes only that the species has been found recently in the Panhandle of Florida. The USDA Plants distribution map (USDA, NRCS 2013) does not record the occurrence of this species in South Carolina.

How could there have been *M. charantia* in South Carolina in 1723? Charleston, South Carolina, was founded in 1670 and was a major port, one of the points in North America where ships from Africa unloaded their cargoes of slaves and African plants. Could an African cucurbit make its way from Charleston to the "upper part of the country" by 1720? Was the plant in a settler's garden? Did someone bring seeds from Europe?

Momordica balsamina was introduced into Europe by 1568 and widely used as a medicine (Griffith & Lombardi 2008). *Momordica* was a known garden plant by the early 1800s. Thomas Jefferson planted balsam apple, apparently *M. balsamina*, in his garden at Monticello in 1810 ("Thomas Jefferson's Monticello" 2013). Balsam apples appear in 18th and 19th century American paintings. The Pope Brown Collection of South Carolina Natural History contains a depiction of either *Momordica balsamina* or *Momordica charantia*, painted ca. 1765-1775 – not so long after Catesby. The Metropolitan Museum of Art has an oil painting by James Peale of Maryland called "Still Life: Balsam Apple and Vegetables." So *Momordica* definitely was growing on the East Coast between 1765 and 1820.

Indigo

H.S. 232 f.106 contains a specimen of indigo, *Indigofera tinctoria* L. Indigo is the source of a blue dye that was in high demand in Europe during the colonial period. In principle, it should not be surprising to find indigo among specimens Catesby collected in Carolina. This plant was cultivated as an export crop on the Coastal Plain of Georgia and South Carolina in the 17th and 18th centuries. But Catesby's specimen predates the widespread commercialization of this plant; South Carolina's indigo industry did not emerge until about 1740.

The Lords Proprietors of Carolina began experimenting with indigo cultivation in the 1670s. The plants in these initial experimental gardens grew well, as the climate of coastal South Carolina proved ideal for growing the crop. By the 1690s, however, the indigo experiment had been largely abandoned as economically unviable; West Indian indigo was of higher quality at the time, and rice was a more profitable crop in the Carolinas. In the 1740s Carolina growers once again attempted to grow indigo – Eliza Lucas Pinckney is often credited with establishing the South Carolina indigo industry – and this time the crop was immensely profitable and a good supplement to rice culture. This was true despite the fact that Carolina indigo had a reputation for being of poor quality. Indigo's profitability lasted only a few decades. By 1800, cotton had replaced it as the cash crop of choice (Coon 1976; Nash 2010).

Catesby's indigo specimen predates the establishment of the Carolina indigo industry by nearly twenty years. This plant may have been a remnant of earlier experiments by the first group of settlers, perhaps using seeds imported from Barbados or Jamaica. It is likely not related to Eliza Pinckney's later crops, which she grew from seeds her father sent her from the West Indies (Coon 1976).

Continuing Catesby's Work

Mark Catesby is justifiably famous today, especially in South Carolina, where he has a number of avid fans. The Catesby Commemorative Trust (www.catesbytrust.org), for example, exists to uphold the memory of Mark Catesby and his work. In November 2012, this Charleston-based organization held a week-long conference celebrating the third tercentennial of Catesby's arrival in Virginia in 1712 and celebrating his impact on the world. They brought in various speakers to describe Catesby's activities and the history surrounding him and traveled from Richmond to Washington, D.C., to Charleston to discuss Catesby's influences, art, science, and influence on natural history. A highlight of the event was the opportunity to view several first editions of the *Natural History*.

The *Natural History*, however, is not the sum of Catesby's work. Catesby's botanical illustrations are masterpieces of information technology and represented the state of the art in 18th-century scientific visualization. Through his color plates and printed publication, Catesby could disseminate his scientific observations to a wide audience. He could restore depth and color, texture and movement, juxtapose plants with the animals that eat them or nest in them, and paint environmental cues such as glimpses of ocean or stream. In so doing, he joined in a long tradition of botanical illustration that allowed for the creation of notional plants, including details that could never occur together in nature and thereby conveying a large amount of information in one image.

Catesby's dried plant specimens provide an equally valuable source of information, as herbarium specimens as vouchers and types remain the primary base of data in botanical taxonomy. Catesby and his herbarium curators created these specimens for an audience of scientists. The dried plants are real in a way that the painted illustrations can never be. There is no artistic license in adding or subtracting details; the only artistry involved is in the presentation of the objects on the page. Because of this enforced honesty, the dried specimens still contain details that botanists can use to distinguish between species, such as length of petioles or number of petals.

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